

VOLUME AUTHOR INDEX

A

Aberdeen JA, 1602
Akita H, 1474
Akselrod S, 1681
Amsterdam EA, 1103
Anderson J, 496
Anderson PG, 84, 1127
Andresen MC, 804
Andries LJ, 1591
Anno T, 789
Anversa P, 1400
Aoki N, 1362
Apstein CS, 406
Argenterio TM, 123
Arner A, 832
Asakura T, 1045
Asanoi H, 1170
Ashikawa K, 503
Asimakis GK, 302
Auffermann W, 747

B

Baily RG, 1720
Balke CW, 202
Ban T, 115
Banner NR, 900
Barry WH, 622
Bassenge E, 1287
Bassett AL, 469
Bassingthwaite JB, 1328
Baumbach GL, 1747
Beamish RE, 28
Bekker AY, 1636
Bell AJ, 1081
Belsky SA, 968
Benessiano J, 321
Benigni A, 1453
Berg RA, 968
Bevan JA, 1445
Beyer EC, 1074
Bhakta R, 875
Bishop SP, 84, 1127
Boccardo P, 1453
Bolli R, 1040
Boor PJ, 249
Boulanger C, 1088
Boyle WA III, 710
Braun ER, 1133
Brovkovich V, 554
Brown MJ, 1610
Brutsaert DL, 1591
Bugu GM, 355
Bugaisky LB, 1127
Bühler FR, 1088
Buja L M, 1526
Bumpus FM, 883, 891
Burnett JC Jr, 76
Burnstock G, 1178, 1602
Burton PR, 1673
Buser PT, 735, 747
Busija DW, 824

Busse R, 1287
Byrns RE, 355

C

Campbell KB, 218
Campbell WB, 608
Capasso JM, 1400
Capogrossi MC, 1143
Carden DL, 1436
Cardinal R, 55
Carmeliet E, 1277
Carmeliet EE, 478
Carroll JD, 1
Cascio WE, 1461
Cercek B, 1755
Chacko VP, 1255, 1268
Chambers DE, 1484
Chan IS, 1328
Chang F, 633
Chaudhuri G, 355
Chen P-S, 1544
Chen V, 763
Cheng CP, 814
Chialvo DR, 525
Chilian WM, 860, 1227
Chiu YC, 1
Chu A, 1484
Chua WT, 191
Clark EB, 109
Cobb FR, 1484
Coetzee WA, 478, 1156
Cohen I, 633
Colatsky TJ, 123
Coles JG, 438
Constantinescu MS, 814
Conti VR, 302
Corr LA, 1602
Corr PB, 672
Cragoe EJ Jr, 1156
Creazzo TL, 1491
Crofton JT, 1345
Cuevas J, 469
Cunningham MJ, 406
Curmi PA, 1692
Curry FRE, 486

D

Dadan J, 1453
Daniel S, 427
Danieley ND, 1544
Danilo P Jr, 427
Dart AM, 950
Das DK, 1535
Dauber IM, 986
Daubert JP, 1190
Davies NJ, 546
Davis MJ, 860
Davis PA, 486
de la Bastie D, 554
de Tombe PP, 1239
Deak SB, 968

Dean C, 1499, 1510
DeBeltz D, 1526
Delcayre C, 867
Dennis S, 344
Dennis SC, 478, 1156
Derome D, 55
Derugin N, 735
Dhalla NS, 28, 782
DiFrancesco D, 633
Dixon IMC, 782
Dobson JG Jr, 457, 1381
Dole WP, 1729
Downing SE, 763
Drexler H, 1371
Du XJ, 950
Dubus I, 867
Durán WN, 1636
Dzau VJ, 103

E

Eastham CL, 389
Edmunds ME, 1673
Edwards BS, 76
El-Sherif N, 1310
Engelman RM, 1535
Engler RL, 596
Entman ML, 259, 1040
Eskinder H, 1427
Etinger OR, 185
Ezaki M, 18

F

Faber JE, 1643
Fagin JA, 1755
Falck JR, 608
Fanburg BL, 957
Faraci FM, 8
Feldman T, 1
Fenton RA, 457, 1381
Filburn CR, 1143
Fishbein MC, 1755
Ford LE, 1
Forrester JS, 1755
Fouad-Tarazi FM, 891
Frame LH, 123
Frater RWM, 1217
Freeman GL, 814
Fuji H, 1160
Fukuzaki H, 1474
Fung Y-C, 37
Furlan LE, 1362
Furukawa T, 469
Furukawa Y, 1391

G

Gabanelli M, 1453
Galbusera M, 1453
Galle J, 1287
Gallenberg LA, 1499
Ganten D, 1585
Ganten U, 1585

Gao J, 633
 Gao L, 1204
 Garcia-Roldan J, 1445
 Gerstenblith G, 1012
 Gerstner J, 1585
 Göbel U, 271
 Gold ME, 355
 Gordon L, 900
 Goshima K, 1474
 Goto Y, 999
 Gough WB, 1310
 Graham RM, 647
 Gruver CL, 1171
 Guth BD, 1703
 Gwathmey JK, 696

H

Hägmark S, 1294
 Hajdu MA, 1747
 Hajjar DP, 185
 Hall JA, 1610
 Hall RS, 1127
 Hamamori Y, 1474
 Hansford RG, 1143
 Harder DR, 1427
 Hartley CJ, 259, 1040
 Haudenschild CC, 1074
 Healy B, 883, 891
 Heidbüchel H, 1277
 Heistad DD, 8, 1747
 Helfant RH, 1755
 Herndon DN, 69
 Heusch G, 1703
 Higgins CB, 735
 Hirakata H, 891
 Hirata Y, 176
 Hiratsuka E, 1067
 Hirth C, 1371
 Hittinger L, 329
 Hondeghem LM, 565, 789
 Hopp FA, 1499, 1510
 Horwitz LD, 986
 Hoshida S, 253, 1160
 Hu N, 109
 Hudlická O, 1178
 Husain A, 883, 891
 Huxley VH, 517
 Hysmith RM, 249

I

Ideker RE, 1190, 1544
 Ignarro LJ, 355
 Imamura S, 1067
 Imura H, 115
 Imura T, 1413
 Inada M, 176
 Inoue Y, 18
 Isaacson JS, 662
 Ito BR, 596

J

Jackson EK, 637
 Jalife J, 525, 1658
 Jasmin G, 747
 Jennings RB, 913
 Johansson G, 1294
 Johnson AE, 875
 Johnson DJ, 438
 Johnson G III, 1362
 Johnson JM, 1420
 Joly D, 55
 Jones R, 1535
 Josephson RA, 773

Joyner RW, 147
 Juan L, 1692
 Juneau C, 846
 Just H, 1371

K

Kadish AH, 202
 Kahn NN, 932
 Kaku T, 1143
 Kaltenbrunner W, 55
 Kamada T, 253, 1160
 Kameyama T, 1170
 Kaminski PM, 1713
 Kamiya K, 1095
 Kampine JP, 1499, 1510
 Kanamori K, 1413
 Kanatsuka H, 389, 503
 Kanazawa T, 1166
 Kaneko H, 1166
 Kantor PF, 478
 Karino T, 1045
 Karwatowska-Prokopczuk E, 46
 Katz AM, 1171
 Kaumann AJ, 1610
 Keeley FW, 438
 Keller BB, 109
 Kellogg DL Jr, 1420
 Kelly P, 329
 Kelm M, 1561
 Khagani A, 900
 Khosla M, 891
 Kilpatrick D, 1081
 Kim Y, 253, 1160
 Kimura M, 1067
 Kimura S, 469
 King RB, 1328
 Kinoshita Y, 1184
 Kirkpatrick RD, 218
 Kitabatake A, 253, 1160
 Kitakaze M, 1255
 Klanchar M, 1624
 Kléber AG, 1461
 Kline RP, 416
 Knight DR, 397
 Knowlen GG, 218
 Knox FG, 1184
 Kodama I, 1095
 Kohin S, 329
 Kohl C, 580
 Kohmoto O, 622
 Kolodgie FD, 1112
 Komaru T, 503
 Komuro I, 979
 Konta Y, 1166
 Koretsune Y, 1255, 1268
 Korth M, 241
 Korthuis RJ, 1436
 Kosiba WA, 1420
 Kristek F, 1178
 Krohn KA, 1328
 Kuan C-J, 637
 Kudryashov SA, 311
 Kuehl WD, 1484
 Kumagai H, 891
 Kuo L, 860
 Kurabayashi M, 979
 Kuschinsky W, 271
 Kusuoaka H, 1268
 Kuzuya T, 253, 1160

L

Lab MJ, 585
 LaBourene JJ, 438
 Lacroix D, 55

Lakatta EG, 773, 1012, 1143
 Lamping KG, 389, 1729
 Landau M, 1658
 Larson DM, 1074
 Layne SM, 1227
 Lee JA, 585
 Lee SL, 782, 957
 Lefer AM, 1362
 Legault F, 846
 Lenz JF, 486
 Leppo JA, 1738
 Lesh MD, 202
 Lesnefsky EJ, 986
 Levine JL, 202
 Levitsky D, 554
 Levy BI, 321
 Levy MN, 1391
 LeWinter MM, 999
 Liedtke AJ, 282
 Lin C-C, 1484
 Lincoln J, 1602
 Link JM, 1328
 Little WC, 814
 Lombard JH, 1427
 Lompré AM, 554
 London RE, 135
 Longhurst JC, 1103
 Lopaschuk GD, 546
 Lorell BH, 406
 Lorente P, 1658
 Lu W, 1371
 Lüscher TF, 1088

M

Mak IT, 1449
 Malfatto G, 427
 Malhotra A, 1302
 Malmqvist U, 832
 Malone MA, 1328
 Manders WT, 329
 Marban E, 1255, 1268
 Marcus ML, 389
 Marklund SL, 1294
 Marotte F, 554, 867
 Martin PJ, 1391
 Matsubara H, 176
 Matsuoka R, 1067
 McAuliffe JJ, 1204
 McCullough JR, 191
 McGillivray-Anderson KM, 1643
 McMurtry IF, 986
 Meerdink DJ, 1738
 Mehra A, 438
 Melnick SD, 1544
 Mennini T, 1453
 Mercadier J-J, 554
 Mergner WJ, 1112
 Messineo FC, 1171
 Messinger-Rapport BJ, 1023
 Metoki H, 1166
 Meulemans AL, 1591
 Michael LH, 259, 1040
 Michaels D, 1658
 Michaels DC, 525
 Mikami T, 1413
 Miller WL, 76
 Milner P, 1178, 1602
 Miwa M, 18
 Miyazaki T, 163, 289
 Moffett TC, 1328
 Moore EN, 202
 Morano I, 1585
 Mor-Avi V, 1681
 Mori Y, 176

Movsesian MA, 622
Mueller HS, 932
Muntz KH, 1526
Murphy E, 135
Murphy RA, 1354
Murry CE, 913
Myerburg RJ, 469

N

Nadeau R, 55
Nakamura K, 18
Nakao K, 115
Nasjletti A, 383
Näslund U, 1294
Nellis SH, 282
Neuser D, 1371
Nguyen PD, 875
Nikolic S, 1217
Nishida M, 253, 1160
Nishikawa T, 1067
Nishimura K, 115

O

Ohanian J, 647
Ohshima N, 941
Oikawa S, 176
Oike Y, 1166
Oliver MF, 950
Olivetti G, 1400
Omens JH, 37
Onodera K, 1166
Opie LH, 344, 478, 1156
O'Rear EA, 875
Orekhov AN, 311
Osaka T, 147
Owen P, 344

P

Pagé P, 55
Palackal T, 1400
Panagia V, 28
Parker GW, 259
Parmley WW, 735, 747
Patterson E, 875
Paul J, 1636
Pelto DJ, 1143
Perico N, 1453
Pesaturo JA, 696
Pierce RA, 968
Pike MM, 1255
Pogwizd SM, 672
Poiani GJ, 968
Poitevin P, 321
Polak JM, 900
Pride HP, 163
Proctor KG, 1713
Prophet S, 1576
Prophet SA, 1720

Q

Quan W, 367

R

Rabinovitch M, 438
Raich PC, 234
Raj JU, 496
Rakusan K, 511, 846
Ralevic V, 1178
Ramza BM, 147
Rappaport L, 554, 867
Rasmussen HH, 191
Reid IA, 662

Reimer KA, 913
Reiz S, 1294
Rembold CM, 1354
Remuzzi G, 1453
Renstrom B, 282
Restivo M, 1310
Rice HE, 1112
Richard VJ, 913
Riemersma RA, 950
Riley DJ, 968
Ringo JA, 218
Rohmann S, 1133
Rollins DL, 1190
Romano FD, 1381
Rose C, 846
Rose M, 900
Rosen MR, 416, 427
Rosen TS, 427
Rosolowsky M, 608
Ross J Jr, 1703
Roth DM, 596
Rouleau JL, 846
Rudy Y, 367, 1023
Rüegg JC, 1585
Russell GI, 1673
Rutledge JC, 486

S

Safar ME, 321
Saito Y, 115
Samuel JL, 867
Sandhu GS, 302
Sanduja R, 249
Santamore WP, 814
Sarkar K, 511
Sasayama S, 1170
Sato M, 941
Sato T, 1413
Savard P, 55
Schaper W, 1133
Schmitz W, 580
Scholz H, 580
Scholz J, 580
Schott RJ, 1133
Schrader J, 1561
Schrader WP, 754
Schwartz K, 554
Seagard JL, 1499, 1510
Segel LD, 710
Seitelberger R, 1703
Sessa WC, 383
Shah KR, 28
Shannon RP, 329
Share L, 1345
Sharma VK, 241
Shaul PW, 1526
Shen Y-T, 397, 647
Shenasa M, 55
Shenberger JS, 1720
Sheu S-S, 241
Shibazaki Y, 979
Siebenmann R, 1088
Siems JE, 1747
Singer DH, 191
Sinha AK, 932
Sinoway L, 1576
Sinoway LI, 1720
Skinner JE, 259
Slinker BK, 999
Smirnov VN, 311
Smith JK, 1436
Smith WM, 1190, 1544
Snyders DJ, 565
Solaro RJ, 1204

Sordahl LA, 302
Spafford MA, 546
Spear JF, 202
Spitzer KW, 622
Springall DR, 900
Spurgeon HA, 773, 1143
Srimani BN, 1535
Stahl GL, 1103
Stasch H-P, 1371
Steenbergen C, 135
Steinberg SF, 427
Stevenson L, 103
Stewart JM, 234
Stewart RW, 883
Stulz P, 1088
Sugi K, 69
Sugiura H, 1095
Sun LS, 427
Suzuki T, 503
Swales JD, 1673
Symons JD, 1103
Szwajkun K, 1729

T

Tada M, 253, 1160
Taira Y, 28
Takaku F, 979
Takao A, 1067
Takishima T, 503
Tamura K, 1217
Tamura T, 1217
Tan RC, 147
Tang S-S, 103
Tarbell JM, 1624
Taylor AA, 1040
Tedgui A, 1692
Ten Eick RE, 191
ter Keurs HEDJ, 1239
Tertov VV, 311
Thaulow E, 1703
Theilen H, 271
Theissen JL, 69
Thomas JX Jr, 397
Tomita T, 18
Toyama J, 1095
Tozzi CA, 968
Traber DL, 69
Traber LD, 69
Tromba C, 633
Tschudi M, 1088
Tsimikas S, 457
Tsuboi N, 1095
Tucker DC, 84
Tucker VL, 517
Turek Z, 511
Turina M, 1088

U

Ueda S, 957
Uemura T, 1166
Urata H, 883, 891
Ursell PC, 427

V

van Brederode JFM, 1499, 1510
VanBenthuyzen KM, 986
Vatner SF, 329, 397, 647
Vavrek RJ, 234
Verececk J, 1277
Virmani R, 1112
Vogel WM, 406
von Segesser L, 1088
Vosberg HP, 1585

W

Wagerle LC, 824
Walker SJ, 1081
Wall SR, 546
Wallick DW, 1391
Wallwork J, 900
Wang D-M, 1624
Watts JA, 135
Weglicki WB, 1449
Weil JV, 986
Weinberg EO, 406
Weisfeldt ML, 1268
Weiss RG, 1012
Wells JN, 637
Wennmalm Å, 46
West CA, 754
Wharton J, 900
Wheeler GS, 986
Whitsett TL, 875

Wicker P, 511
Wikman-Coffelt J, 735, 747
Willerson JT, 608
Williford DJ, 241
Wilson SK, 722
Wisnewsky C, 554
Wolf PD, 1190, 1544
Wood KS, 355
Wu ST, 735, 747

Y

Yabe S, 1190
Yacoub MH, 900
Yamada M, 1474
Yamamoto J, 176
Yamamoto K, 1413
Yan G-X, 1461
Yang M, 804
Yang Z, 1088

Yasuda H, 1413
Yazaki Y, 979
Yellin EL, 1217
Yohn SE, 968
Yokoyama M, 1474
Young MA, 647
Yu SY, 968
Yue DT, 1255

Z

Zaza A, 416
Zelis R, 1720
Zhang Z, 1040
Zimmerman BG, 234
Zimmerman RS, 76
Zipes DP, 163, 289
Zwischenberger JB, 302

VOLUME SUBJECT INDEX

A

Abdominal aorta

In Vivo Viscoelastic Behavior in the Human Aorta, 1413

Acetylcholine

Acetylcholine Reverses Effects of β -Agonists on Pacemaker Current in Canine Cardiac Purkinje Fibers but Has No Direct Action: A Difference Between Primary and Secondary Pacemakers, 633

Control of Coronary Vascular Tone by Nitric Oxide, 1561

Effect of Thromboxane A_2 /Endoperoxide Antagonist SQ29548 on the Contractile Response to Acetylcholine in Newborn Piglet Cerebral Arteries, 824

Interaction Between Endothelin-1 and Endothelium-Derived Relaxing Factor in Human Arteries and Veins, 1088

Three Different Potassium Channels in Human Atrium: Contribution to the Basal Potassium Conductance, 1277

Acidosis

Presynaptic Modulation of Efferent Sympathetic and Vagal Neurotransmission in the Canine Heart by Hypoxia, High K^+ , Low pH, and Adenosine: Possible Relevance to Ischemia-Induced Denervation, 289

Acrolein

A Role for a New Vascular Enzyme in the Metabolism of Xenobiotic Amines, 249

Actin

Isoform Distribution and Tissue Contents of Contractile and Cytoskeletal Proteins in Hypertrophied Smooth Muscle From Rat Portal Vein, 832

Action potential

Electrophysiological Properties and Responses to Simulated Ischemia in Cat Ventricular Myocytes of Endocardial and Epicardial Origin, 469

Activation sequence

Noninvasive Recovery of Epicardial Potentials in a Realistic Heart-Torso Geometry: Normal Sinus Rhythm, 1023

Actomyosin ATPase

Regulatory Proteins in Hamster Cardiomyopathy, 1302

Acute ischemic heart disease

Impaired Prostaglandin E_1/I_2 Receptor Activity of Human Blood Platelets in Acute Ischemic Heart Disease, 932

Acute lung injury

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

Acute respiratory distress syndrome

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

Adenine nucleotides

Intermittent Ischemia Produces a Cumulative Depletion of Mitochondrial Adenine Nucleotides in the Isolated Perfused Rat Heart, 302

Ischemic Preconditioning Slows Energy Metabolism and Delays Ultrastructural Damage During a Sustained Ischemic Episode, 913

Adenosine

Effects of Endothelin on Coronary Flow, Mechanical Performance, Oxygen Uptake, and Formation of Purines and on Outflow of Prostacyclin in the Isolated Rabbit Heart, 46

Endogenous Adenosine Restrains Renin Release in Conscious Rats, 637

Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

Localization of Adenosine Deaminase and Adenosine Deaminase Complexing Protein in Rabbit Heart: Implications for Adenosine Metabolism, 754

Presynaptic Modulation of Efferent Sympathetic and Vagal Neurotransmission in the Canine Heart by Hypoxia, High K^+ , Low pH, and Adenosine: Possible Relevance to Ischemia-Induced Denervation, 289

Adenosine deaminase

Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457

Localization of Adenosine Deaminase and Adenosine Deaminase Complexing Protein in Rabbit Heart: Implications for Adenosine Metabolism, 754

Adenylate cyclase

Effects of Prolonged Hypoxia on Adenylate Cyclase Activity and β -Adrenergic Receptors in Pulmonary and Systemic Arteries of the Rat, 1526

Adrenergic nervous system

Ischemia-Induced Epicardial Vasoconstriction: A Potential Mechanism for Distant Myocardial Ischemia, 1484

Adrenergic regulation

Endothelial Renin-Angiotensin Pathway: Adrenergic Regulation of Angiotensin Secretion, 103

 α -Adrenergic receptors

Effect of Acidosis on Contraction of Microvascular Smooth Muscle by α_1 - and α_2 -Adrenoceptors: Implications for Neural and Metabolic Regulation, 1643

 α_1 -Adrenergic receptor-effector coupling

Sympathetic Neural Modulation of Cardiac Impulse Initiation and Repolarization in the Newborn Rat, 427

 α_1 -Adrenergic responsiveness

Sympathetic Neural Modulation of Cardiac Impulse Initiation and Repolarization in the Newborn Rat, 427

 α_1 -Adrenergic stimulation

Phorbol Ester and Dioctanoylglycerol Stimulate Membrane Association of Protein Kinase C and Have a Negative Inotropic Effect Mediated by Changes in Cytosolic Ca^{2+} in Adult Rat Cardiac Myocytes, 1143

 α_1 -Adrenoceptor

Evidence for the Existence of Inositol Tetrakisphosphate in Mammalian Heart: Effect of α_1 -Adrenoceptor Stimulation, 580

 β -Adrenergic

Effects of α -Adrenergic Stimulation on Intracellular Sodium Activity and Automaticity in Canine Purkinje Fibers, 416

Functional and Morphological Characteristics of Compensated and Decompensated Cardiac Hypertrophy in Dogs With Chronic Infra-renal Aorto-caval Fistulas, 846

 β -Adrenergic agonist

Chloride Efflux in Cyclic AMP-Induced Configurational Change of Bovine Pulmonary Artery Endothelial Cells, 957

 β -Adrenergic receptors

Effects of Prolonged Hypoxia on Adenylate Cyclase Activity and β -Adrenergic Receptors in Pulmonary and Systemic Arteries of the Rat, 1526

 β_1 -Adrenoceptors

Selective β_1 -Adrenoceptor Blockade Enhances Positive Inotropic Responses to Endogenous Catecholamines Mediated Through β_2 -Adrenoceptors in Human Atrial Myocardium, 1610

Adult cardiocytes

β -Adrenergic Agonists Stimulate the Synthesis of Noncontractile but Not Contractile Proteins in Cultured Myocytes Isolated From Adult Rat Heart, 867

Aequorin

Changes in Intracellular Calcium During Mechanical Alternans in Isolated Ferret Ventricular Muscle, 585
Muscle Length, Shortening, Myoplasmic $[Ca^{2+}]$, and Activation of Arterial Smooth Muscle, 1354

Aging

Effects of Aging on Mechanics and Composition of Cerebral Arterioles in Rats, 1747
Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

Albumin

Effect of Transmural Pressure on Low Density Lipoprotein and Albumin Transport and Distribution Across the Intact Arterial Wall, 1692

Alkaline phosphatase

Congruence of Total and Perfused Capillary Network in Rat Brains, 271

Allylamine

A Role for a New Vascular Enzyme in the Metabolism of Xenobiotic Amines, 249

Alternans

Changes in Intracellular Calcium During Mechanical Alternans in Isolated Ferret Ventricular Muscle, 585

Amiloride

Effects of Amiloride on Metabolism and Contractility During Reoxygenation in Perfused Rat Hearts, 1012

4-Aminopyridine

Experimental and Modeling Study of the Excitability of Carotid Sinus Baroreceptors, 1510

Amrinone

Dobutamine Potentiates Amrinone's Beneficial Effects in Moderate but Not in Advanced Heart Failure: ^{31}P -MRS in Isolated Hamster Hearts, 747

Anaphylatoxin

Role of Thromboxane A_2 in the Cardiovascular Response to Intracoronary C5a, 1103
Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Angiogenesis

Mast Cells in the Rat Heart During Normal Growth and in Cardiac Hypertrophy, 511

Angiotensin

Angiotensins and the Failing Heart: Enhanced Positive Inotropic Response to Angiotensin I in Cardiomyopathic Hamster Heart in the Presence of Captopril, 891
Myocardial Effects of Selective α -Adrenoceptor Blockade During Exercise in Dogs, 1703

Angiotensin I

Angiotensin II-Forming Pathways in Normal and Failing Human Hearts, 883

Angiotensin II

Angiotensin II-Forming Pathways in Normal and Failing Human Hearts, 883
Importance of Endogenous Angiotensin II in the Cardiovascular Responses to Sympathetic Stimulation in Conscious Rabbits, 662
Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804
Role of Oxygen-Derived Free Radicals in Acute Angiotensin II-Induced Hypertensive Vascular Disease in the Rat, 722

Angiotensin converting enzyme

Angiotensin II-Forming Pathways in Normal and Failing Human Hearts, 883

Angiotensin converting enzyme inhibitors

Bradykinin Contribution to Renal Blood Flow Effect of Angiotensin Converting Enzyme Inhibitor in the Conscious Sodium-Restricted Dog, 234

Angiotensin II-forming enzymes

Angiotensin II-Forming Pathways in Normal and Failing Human Hearts, 883

Anisotropy

Ventricular Arrhythmias in the Subacute Myocardial Infarction Period: High-Resolution Activation and Refractory Patterns of Reentrant Rhythms, 1310

Annihilation

Bistabilities and Annihilation Phenomena in Electrophysiological Cardiac Models, 1658

Antiarrhythmic agents

Interactions of Flecainide With Guinea Pig Cardiac Sodium Channels: Importance of Activation Unblocking to the Voltage Dependence of Recovery, 789

Antidiuretic hormone

Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804

Antifibronectin

Congruence of Total and Perfused Capillary Network in Rat Brains, 271

Antiperoxidant activity

Comparative Antioxidant Activities of Propranolol, Nifedipine, Verapamil, and Diltiazem Against Sarcolemmal Membrane Lipid Peroxidation, 1449

Aorta

Effect of Transmural Pressure on Low Density Lipoprotein and Albumin Transport and Distribution Across the Intact Arterial Wall, 1692
Effects of Prolonged Hypoxia on Adenylate Cyclase Activity and β -Adrenergic Receptors in Pulmonary and Systemic Arteries of the Rat, 1526

Aortic stenosis

Hemodynamic Resistance as a Measure of Functional Impairment in Aortic Valvular Stenosis, 1

Arachidonic acid

Synthesis of Lipoxigenase and Epoxigenase Products of Arachidonic Acid by Normal and Stenosed Canine Coronary Arteries, 608

Arrhythmias

Reduction of Ischemic K^+ Loss and Arrhythmias in Rat Hearts: Effect of Glibenclamide, a Sulfonyleurea, 478

Arterial baroreceptor reflex

Relative Roles of Cardiac Receptors and Arterial Baroreceptors During Hemorrhage in Conscious Dogs, 397

Arterial baroreceptors

Firing Characteristics of Single-Fiber Carotid Sinus Baroreceptors, 1499

Arterial pressure

Relative Roles of Cardiac Receptors and Arterial Baroreceptors During Hemorrhage in Conscious Dogs, 397

Arterial wall injury

Induction of Insulin-Like Growth Factor I Messenger RNA in Rat Aorta After Balloon Denudation, 1755

Arteries

Role of Oxygen-Derived Free Radicals in Acute Angiotensin II-Induced Hypertensive Vascular Disease in the Rat, 722

Aspirin

Role of Thromboxane A_2 in the Cardiovascular Response to Intracoronary C5a, 1103

Atenolol

Stimulation of Phospholipid *N*-Methylation by Isoproterenol in Rat Hearts, 28

Atherogenicity

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Atherosclerosis

Calcium Channel Blockers Enhance Cholesteryl Ester Hydrolysis and Decrease Total Cholesterol Accumulation in Human Aortic Tissue, 185

Flow Patterns and Spatial Distribution of Atherosclerotic Lesions in Human Coronary Arteries, 1045

- Oxidized Low Density Lipoproteins Potentiate Vasoconstrictions to Various Agonists by Direct Interaction With Vascular Smooth Muscle, 1287
- Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8
- Vascular Reactivity During the Progression of Atherosclerotic Plaque: A Study in Watanabe Heritable Hyperlipidemic Rabbits, 1112
- ATP**
- ATP Directly Affects Junctional Conductance Between Paired Ventricular Myocytes Isolated From Guinea Pig Heart, 1095
- Control of Coronary Vascular Tone by Nitric Oxide, 1561
- ATPase**
- Changes in Myofibrillar Activation and Troponin C Ca^{2+} Binding Associated With Troponin T Isoform Switching in Developing Rabbit Heart, 1204
- Atrial natriuretic factor**
- Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804
- Renal-Endocrine Adaptations to Endogenous Atrial Natriuretic Factor During Tachycardia-Induced Reductions in Renal Perfusion Pressure, 76
- Vasodilatory Action of Endogenous Atrial Natriuretic Factor in a Rat Model of Chronic Heart Failure as Determined by Monoclonal ANF Antibody, 1371
- Atrial natriuretic peptide**
- Atrial Natriuretic Factor-Induced Systemic Vasoconstriction in Conscious Dogs, Rats, and Monkeys, 647
- Changes of Atrial Natriuretic Peptide and Its Messenger RNA With Development and Regression of Cardiac Hypertrophy in Renovascular Hypertensive Rats, 176
- Functional Implications of Decreased Renal Cortical Atrial Natriuretic Peptide Binding in Experimental Diabetes, 1453
- Pulmonary Venous Responses to Thromboxane A_2 Analogue and Atrial Natriuretic Peptide in Lambs, 496
- Atrial natriuretic polypeptide**
- Atrial Pacing Stimulates Secretion of Atrial Natriuretic Polypeptide Without Elevation of Atrial Pressure in Awake Dogs With Experimental Complete Atrioventricular Block, 115
- Atrial pacing**
- Atrial Pacing Stimulates Secretion of Atrial Natriuretic Polypeptide Without Elevation of Atrial Pressure in Awake Dogs With Experimental Complete Atrioventricular Block, 115
- Atrioventricular conduction**
- Chronotropic and Dromotropic Responses to Stimulation of Intracardiac Sympathetic Nerves to Sinoatrial or Atrioventricular Nodal Region in Anesthetized Dogs, 1391
- Prostaglandins in the Pericardial Fluid Modulate Neural Regulation of Cardiac Electrophysiological Properties, 163
- Atrioventricular node**
- Chronotropic and Dromotropic Responses to Stimulation of Intracardiac Sympathetic Nerves to Sinoatrial or Atrioventricular Nodal Region in Anesthetized Dogs, 1391
- Atropine**
- Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457
- Autoradiography**
- Functional Implications of Decreased Renal Cortical Atrial Natriuretic Peptide Binding in Experimental Diabetes, 1453
- Autoregulation**
- Attenuation of Vasopressin-Mediated Coronary Constriction and Myocardial Depression in the Hypoxic Heart, 710
- Coronary Arteriolar Myogenic Response Is Independent of Endothelium, 860
- Coronary Microvascular Responses to Reductions in Perfusion Pressure: Evidence for Persistent Arteriolar Vasomotor Tone During Coronary Hypoperfusion, 1227
- Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

B

- Baroreceptor**
- Myocardial Effects of Selective α -Adrenoceptor Blockade During Exercise in Dogs, 1703

Baroreceptor reflex

- Firing Characteristics of Single-Fiber Carotid Sinus Baroreceptors, 1499

Baroreflexes

- Baroreflex Control of the Cutaneous Active Vasodilator System in Humans, 1420
- Baroreceptor-Heart Rate Reflex Function Before and After Surgical Reversal of Two-Kidney, One-Clip Hypertension in the Rat, 1673
- Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804

Basal potassium conductance

- Three Different Potassium Channels in Human Atrium: Contribution to the Basal Potassium Conductance, 1277

B-HT 933

- Effect of Acidosis on Contraction of Microvascular Smooth Muscle by α_1 - and α_2 -Adrenoceptors: Implications for Neural and Metabolic Regulation, 1643

Bifurcation analysis

- Bistabilities and Annihilation Phenomena in Electrophysiological Cardiac Models, 1658

Biphasic waveform

- Conduction Disturbances Caused by High Current Density Electric Fields, 1190

Bistability

- Bistabilities and Annihilation Phenomena in Electrophysiological Cardiac Models, 1658

Blood pressure

- Importance of Endogenous Angiotensin II in the Cardiovascular Responses to Sympathetic Stimulation in Conscious Rabbits, 662

Blood pressure regulation

- Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804
- Sexual Dimorphism in Vasopressin and Cardiovascular Response to Hemorrhage in the Rat, 1345

Blood serum

- Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

BM13505

- Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Body surface potential mapping

- Spatial Domain Analysis of Late Ventricular Potentials: Intraoperative and Thoracic Correlations, 55

Bovine aortic endothelial cells

- Endothelial Renin-Angiotensin Pathway: Adrenergic Regulation of Angiotensin Secretion, 103

Bovine pulmonary artery

- Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355

Bovine pulmonary vein

- Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355

Bradykinin

- Control of Coronary Vascular Tone by Nitric Oxide, 1561
- Interaction Between Endothelin-1 and Endothelium-Derived Relaxing Factor in Human Arteries and Veins, 1088

Bradykinin antagonist

- Bradykinin Contribution to Renal Blood Flow Effect of Angiotensin Converting Enzyme Inhibitor in the Conscious Sodium-Restricted Dog, 234

C

Ca^{2+} uptake

- Function of the Sarcoplasmic Reticulum and Expression of Its Ca^{2+} -ATPase Gene in Pressure Overload-Induced Cardiac Hypertrophy in the Rat, 554

Ca²⁺-ATPase gene expression

Function of the Sarcoplasmic Reticulum and Expression of Its Ca²⁺-ATPase Gene in Pressure Overload-Induced Cardiac Hypertrophy in the Rat, 554

Cable analysis

Electrical Properties of Canine Subendocardial Purkinje Fibers Surviving in 1-Day-Old Experimental Myocardial Infarction, 123

Calcium

Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355

Flow-Induced Constriction and Dilatation of Cerebral Resistance Arteries, 1445

The Role of Mitochondria and Sarcoplasmic Reticulum Calcium Handling Upon Reoxygenation of Hypoxic Myocardium, 696

Calcium channel

Reduced L-Type Calcium Current in the Embryonic Chick Heart with Persistent Truncus Arteriosus, 1491

Calcium channel blockers

Calcium Channel Blockers Enhance Cholesteryl Ester Hydrolysis and Decrease Total Cholesterol Accumulation in Human Aortic Tissue, 185

Comparative Antioxidant Activities of Propranolol, Nifedipine, Verapamil, and Diltiazem Against Sarcolemmal Membrane Lipid Peroxidation, 1449

Calcium current

Reduced L-Type Calcium Current in the Embryonic Chick Heart with Persistent Truncus Arteriosus, 1491

Calcium cycling

Changes in Intracellular Calcium During Mechanical Alternans in Isolated Ferret Ventricular Muscle, 585

Calcium entry blockade

Calcium Entry Blockade Prevents Leakage of Macromolecules Induced by Ischemia-Reperfusion in Skeletal Muscle, 1636

Capillaries

Mast Cells in the Rat Heart During Normal Growth and in Cardiac Hypertrophy, 511

Capillary density

Congruence of Total and Perfused Capillary Network in Rat Brains, 271

Functional and Morphological Characteristics of Compensated and Decompensated Cardiac Hypertrophy in Dogs With Chronic Infra-renal Aorto-caval Fistulas, 846

Capillary permeability

Evidence for Cholinergic Regulation of Microvessel Hydraulic Conductance During Tissue Hypoxia, 517

Low Density Lipoprotein Transport Across a Microvascular Endothelial Barrier After Permeability Is Increased, 486

Capillary reserve

Congruence of Total and Perfused Capillary Network in Rat Brains, 271

Capsaicin

Substance P Is Released From the Endothelium of Normal and Capsaicin-Treated Rat Hind-Limb Vasculature, In Vivo, by Increased Flow, 1178

Captopril

Angiotensins and the Failing Heart: Enhanced Positive Inotropic Response to Angiotensin I in Cardiomyopathic Hamster Heart in the Presence of Captopril, 891

Does Endocardial Endothelium Mediate Positive Inotropic Response to Angiotensin I and Angiotensin II?, 1591

Endothelial Renin-Angiotensin Pathway: Adrenergic Regulation of Angiotensin Secretion, 103

Importance of Endogenous Angiotensin II in the Cardiovascular Responses to Sympathetic Stimulation in Conscious Rabbits, 662

Carbon monoxide

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

Cardiac contractility

Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

Cardiac function

Excitation-Contraction Coupling in Posts ischemic Myocardium: Does Failure of Activator Ca²⁺ Transients Underlie Stunning?, 1268

Exercise-Induced Subendocardial Dysfunction in Dogs With Left Ventricular Hypertrophy, 329

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

Quantification of [Ca²⁺]_i in Perfused Hearts: Critical Evaluation of the 5F-BAPTA and Nuclear Magnetic Resonance Method as Applied to the Study of Ischemia and Reperfusion, 1255

Cardiac glycogen stores

Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Cardiac growth

Mast Cells in the Rat Heart During Normal Growth and in Cardiac Hypertrophy, 511

Cardiac hypertrophy

Function of the Sarcoplasmic Reticulum and Expression of Its Ca²⁺-ATPase Gene in Pressure Overload-Induced Cardiac Hypertrophy in the Rat, 554

Molecular Cloning of Gene Sequences From Rat Heart Rapidly Responsive to Pressure Overload, 979

Cardiac innervation

Immunohistochemical Demonstration of Human Cardiac Innervation Before and After Transplantation, 900

Cardiac lymph

Thromboxane B₂ in Cardiac Lymph: Effect of Superoxide Dismutase and Catalase During Myocardial Ischemia and Reperfusion, 1040

Cardiac messenger RNA

Molecular Cloning of Gene Sequences From Rat Heart Rapidly Responsive to Pressure Overload, 979

Cardiac metabolism

Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Cardiac morphogenesis

Correlation of Ventricular Area, Perimeter, and Conotruncal Diameter With Ventricular Mass and Function in the Chick Embryo From Stages 12 to 24, 109

Cardiac muscle

Force and Velocity of Sarcomere Shortening in Trabeculae From Rat Heart: Effects of Temperature, 1239

Regulation of Myosin Heavy Chain Expression in the Hearts of Hypertensive Rats by Testosterone, 1585

Cardiac myocytes

Effects of Intracellular Acidosis on [Ca²⁺]_i Transients, Transsarcolemmal Ca²⁺ Fluxes, and Contraction in Ventricular Myocytes, 622

Effects of Quinidine on the Sodium Current of Guinea Pig Ventricular Myocytes: Evidence for a Drug-Associated Rested State with Altered Kinetics, 565

Phorbol Ester and Dioctanoylglycerol Stimulate Membrane Association of Protein Kinase C and Have a Negative Inotropic Effect Mediated by Changes in Cytosolic Ca²⁺ in Adult Rat Cardiac Myocytes, 1143

Spatial Heterogeneity of Intracellular Ca²⁺ Concentration in Nonbeating Guinea Pig Ventricular Myocytes, 241

Cardiac O₂ metabolism

Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Cardiac output

Atrial Natriuretic Factor-Induced Systemic Vasoconstriction in Conscious Dogs, Rats, and Monkeys, 647

Relative Roles of Cardiac Receptors and Arterial Baroreceptors During Hemorrhage in Conscious Dogs, 397

Cardiac reflexes

Atrial Natriuretic Factor-Induced Systemic Vasoconstriction in Conscious Dogs, Rats, and Monkeys, 647

Prostaglandins in the Pericardial Fluid Modulate Neural Regulation of Cardiac Electrophysiological Properties, 163

Cardiac sodium channels

Interactions of Flecainide With Guinea Pig Cardiac Sodium Channels: Importance of Activation Unblocking to the Voltage Dependence of Recovery, 789

Cardiac transport function

Myocardial Transport of Hexakis(2-methoxyisobutylisocyanide) and Thallium Before and After Coronary Reperfusion, 1738

Cardiogenesis

Morphological Development of the Rat Heart Growing In Oculo in the Absence of Hemodynamic Work Load, 84

Cardiomyopathy

Angiotensins and the Failing Heart: Enhanced Positive Inotropic Response to Angiotensin I in Cardiomyopathic Hamster Heart in the Presence of Captopril, 891

The Hyperthyroid Heart: An Analysis of Systolic and Diastolic Properties in Single Rat Ventricular Myocytes, 773

Cardiopulmonary baroreceptors

Direct Neurohumoral Evidence for Isolated Sympathetic Nervous System Activation to Skeletal Muscle in Response to Cardiopulmonary Baroreceptor Unloading, 1720

Cardiopulmonary reflexes

Relative Roles of Cardiac Receptors and Arterial Baroreceptors During Hemorrhage in Conscious Dogs, 397

Cardiovascular development

Correlation of Ventricular Area, Perimeter, and Conotruncal Diameter With Ventricular Mass and Function in the Chick Embryo From Stages 12 to 24, 109

Carnitine acyltransferase I inhibition

Glucose and Palmitate Oxidation in Isolated Working Rat Hearts Reperfused After a Period of Transient Global Ischemia, 546

Carotid occlusion

Importance of Endogenous Angiotensin II in the Cardiovascular Responses to Sympathetic Stimulation in Conscious Rabbits, 662

Carotid sinus baroreceptors

Experimental and Modeling Study of the Excitability of Carotid Sinus Baroreceptors, 1510

Catalase

Actions of Adenosine on Nitro Blue Tetrazolium Deposition and Surface pH During Intestinal Reperfusion Injury, 1713
Role of Oxygen-Derived Free Radicals in Acute Angiotensin II-Induced Hypertensive Vascular Disease in the Rat, 722

Catecholamines

β -Adrenergic Agonists Stimulate the Synthesis of Noncontractile but Not Contractile Proteins in Cultured Myocytes Isolated From Adult Rat Heart, 867

Stimulation of Phospholipid *N*-Methylation by Isoproterenol in Rat Hearts, 28

CD11/CD18

Neutrophil-Mediated Microvascular Dysfunction in Postischemic Canine Skeletal Muscle: Role of Granulocyte Adherence, 1436

Cell coupling

Effect of Cellular Uncoupling by Heptanol on Conduction in Infarcted Myocardium, 202

Cell culture

β -Adrenergic Agonists Stimulate the Synthesis of Noncontractile but Not Contractile Proteins in Cultured Myocytes Isolated From Adult Rat Heart, 867

Central command

Skeletal Muscle Metaboreceptor Stimulation Opposes Peak Metabolic Vasodilation in Humans, 1576

Cerebral arteries

Effect of Thromboxane A_2 /Endoperoxide Antagonist SQ29548 on the Contractile Response to Acetylcholine in Newborn Piglet Cerebral Arteries, 824

Cerebral circulation

Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

Cerebrovascular

Effect of Thromboxane A_2 /Endoperoxide Antagonist SQ29548 on the Contractile Response to Acetylcholine in Newborn Piglet Cerebral Arteries, 824

Chaos

Supernormal Excitability as a Mechanism of Chaotic Dynamics of Activation in Cardiac Purkinje Fibers, 525

Chick embryo

Correlation of Ventricular Area, Perimeter, and Conotruncal Diameter With Ventricular Mass and Function in the Chick Embryo From Stages 12 to 24, 109

Cholesterol metabolism

Calcium Channel Blockers Enhance Cholesteryl Ester Hydrolysis and Decrease Total Cholesterol Accumulation in Human Aortic Tissue, 185

Cholesteryl linoleate peroxidation

Acceleration of Platelet Aggregability Due to Modulation of Native LDL, 1166

Cholinergic regulation

Evidence for Cholinergic Regulation of Microvessel Hydraulic Conductance During Tissue Hypoxia, 517

Chronic hypertension

Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

Chronotropic

Functional and Morphological Characteristics of Compensated and Decompensated Cardiac Hypertrophy in Dogs With Chronic Infrarenal Aorto-caval Fistulas, 846

Cl⁻ channel

Chloride Efflux in Cyclic AMP-Induced Configurational Change of Bovine Pulmonary Artery Endothelial Cells, 957

Collagen

Collagen and Elastin Metabolism in Hypertensive Pulmonary Arteries of Rats, 968

Complement

Role of Thromboxane A_2 in the Cardiovascular Response to Intracoronary CSA, 1103

Complete atrioventricular block

Atrial Pacing Stimulates Secretion of Atrial Natriuretic Polypeptide Without Elevation of Atrial Pressure in Awake Dogs With Experimental Complete Atrioventricular Block, 115

Computerized mapping

Comparison of Activation During Ventricular Fibrillation and Following Unsuccessful Defibrillation Shocks in Open-Chest Dogs, 1544

Conduction block

Conduction Disturbances Caused by High Current Density Electric Fields, 1190

Conduction velocity

Firing Characteristics of Single-Fiber Carotid Sinus Baroreceptors, 1499

Congestive heart failure

Nitrendipine Binding in Congestive Heart Failure Due to Myocardial Infarction, 782

Connexin

Gap Junction Messenger RNA Expression by Vascular Wall Cells, 1074

Constriction

Flow-Induced Constriction and Dilation of Cerebral Resistance Arteries, 1445

Contractile and cytoskeletal proteins

Isoform Distribution and Tissue Contents of Contractile and Cytoskeletal Proteins in Hypertrophied Smooth Muscle From Rat Portal Vein, 832

Contractility

Functional and Morphological Characteristics of Compensated and Decompensated Cardiac Hypertrophy in Dogs With Chronic Infrarenal Aorto-caval Fistulas, 846

Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457

Contraction

Effects of Intracellular Acidosis on $[Ca^{2+}]_i$ Transients, Transsarcolemmal Ca^{2+} Fluxes, and Contraction in Ventricular Myocytes, 622

Passive Electrical Properties, Mechanical Activity, and Extracellular Potassium in Arterially Perfused and Ischemic Rabbit Ventricular Muscle: Effects of Calcium Entry Blockade or Hypocalcemia, 1461

Converting enzyme inhibition

Endothelium-Dependent Mechanical Properties of the Carotid Artery in WKY and SHR: Role of Angiotensin Converting Enzyme Inhibition, 321

Coronary arteries

Rapid and Reversible Inhibition by Low Density Lipoprotein of the Endothelium-Dependent Relaxation to Hemostatic Substances in Porcine Coronary Arteries: Heat and Acid Labile Factors in Low Density Lipoprotein Mediate the Inhibition, 18

Role of Endothelium-Derived Relaxing Factor and Prostaglandins in Responses of Coronary Arteries to Thromboxane In Vivo, 1729

Sympathetic and Nonsympathetic Neuropeptide Y-Containing Nerves in the Rat Myocardium and Coronary Arteries, 1602

Coronary artery occlusion

Endothelium and Myocardial Protecting Actions of Taprostene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Coronary artery ring preparation

Endothelium and Myocardial Protecting Actions of Taprostene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Coronary atherosclerosis

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Coronary blood flow

Control of Coronary Vascular Tone by Nitric Oxide, 1561

Coronary Arteriolar Myogenic Response Is Independent of Endothelium, 860

Effects of Endothelin on Coronary Flow, Mechanical Performance, Oxygen Uptake, and Formation of Purines and on Outflow of Prostacyclin in the Isolated Rabbit Heart, 46

Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457

Localization of Adenosine Deaminase and Adenosine Deaminase Complexing Protein in Rabbit Heart: Implications for Adenosine Metabolism, 754

Role of Thromboxane A_2 in the Cardiovascular Response to Intracoronary C5a, 1103

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Coronary constriction

Attenuation of Vasopressin-Mediated Coronary Constriction and Myocardial Depression in the Hypoxic Heart, 710

Coronary occlusion

Spectral Analysis of Canine Epicardial Electrogram: Short-term Variations in the Frequency Content Induced by Myocardial Ischemia, 1681

Coronary vascular resistance

Role of Endothelium-Derived Relaxing Factor and Prostaglandins in Responses of Coronary Arteries to Thromboxane In Vivo, 1729

Creatine phosphokinase

Endothelium and Myocardial Protecting Actions of Taprostene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Critical closure

Diameter Change and Pressure-Red Blood Cell Velocity Relations in Coronary Microvessels During Long Diastoles in the Canine Left Ventricle, 503

Crossbridge cycling

Decreased Contractile Efficiency and Increased Nonmechanical Energy Cost in Hyperthyroid Rabbit Heart: Relation Between O_2 Consumption and Systolic Pressure-Volume Area or Force-Time Integral, 999

Cyclic AMP

Calcium Channel Blockers Enhance Cholesteryl Ester Hydrolysis and Decrease Total Cholesterol Accumulation in Human Aortic Tissue, 185

Chloride Efflux in Cyclic AMP-Induced Configurational Change of Bovine Pulmonary Artery Endothelial Cells, 957

Cyclic AMP-dependent protein kinase

Stimulation of Phospholipid *N*-Methylation by Isoproterenol in Rat Hearts, 28

Cyclic GMP

Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355

Control of Coronary Vascular Tone by Nitric Oxide, 1561

Cyclooxygenase

Does Endocardial Endothelium Mediate Positive Inotropic Response to Angiotensin I and Angiotensin II?, 1591

Cytochrome P-450

Synthesis of Lipoyxygenase and Epoxigenase Products of Arachidonic Acid by Normal and Stenosed Canine Coronary Arteries, 608

Cytosolic Ca^{2+}

Phorbol Ester and Dioctanoylglycerol Stimulate Membrane Association of Protein Kinase C and Have a Negative Inotropic Effect Mediated by Changes in Cytosolic Ca^{2+} in Adult Rat Cardiac Myocytes, 1143

Cytosolic free calcium

Correlation Between Cytosolic Free Calcium, Contracture, ATP, and Irreversible Ischemic Injury in Perfused Rat Heart, 135

D**Defibrillation**

Comparison of Activation During Ventricular Fibrillation and Following Unsuccessful Defibrillation Shocks in Open-Chest Dogs, 1544

Conduction Disturbances Caused by High Current Density Electric Fields, 1190

Desmin

Isoform Distribution and Tissue Contents of Contractile and Cytoskeletal Proteins in Hypertrophied Smooth Muscle From Rat Portal Vein, 832

Dexamethasone

Dexamethasone Selectively Attenuates Prostanoid-Induced Vasoconstrictor Responses In Vitro, 383

Diabetes

Functional Implications of Decreased Renal Cortical Atrial Natriuretic Peptide Binding in Experimental Diabetes, 1453

Diastole

Effect of Early Diastolic Loading on Myocardial Relaxation in the Intact Canine Left Ventricle, 1217

Effect of Loading Conditions, Contractile State, and Heart Rate on Early Diastolic Left Ventricular Filling in Conscious Dogs, 814

Influence of Glucose and Insulin on the Exaggerated Diastolic and Systolic Dysfunction of Hypertrophied Rat Hearts During Hypoxia, 406

Diastolic potential

Two Stable Levels of Diastolic Potential at Physiological K^+ Concentrations in Human Ventricular Myocardial Cells, 191

Diastolic relaxation

Effects of Endothelin on Coronary Flow, Mechanical Performance, Oxygen Uptake, and Formation of Purines and on Outflow of Prostacyclin in the Isolated Rabbit Heart, 46

Differential hybridization

Molecular Cloning of Gene Sequences From Rat Heart Rapidly Responsive to Pressure Overload, 979

Dihydropyridine receptor

Reduced L-Type Calcium Current in the Embryonic Chick Heart with Persistent Truncus Arteriosus, 1491

Dilation

Flow-Induced Constriction and Dilation of Cerebral Resistance Arteries, 1445

Dioctanoylglycerol

Phorbol Ester and Dioctanoylglycerol Stimulate Membrane Association of Protein Kinase C and Have a Negative Inotropic Effect Mediated by Changes in Cytosolic Ca^{2+} in Adult Rat Cardiac Myocytes, 1143

Distant ischemia

Ischemia-Induced Epicardial Vasoconstriction: A Potential Mechanism for Distant Myocardial Ischemia, 1484

Dogs

Coronary Microvascular Responses to Reductions in Perfusion Pressure: Evidence for Persistent Arteriolar Vasomotor Tone During Coronary Hypoperfusion, 1227

Spectral Analysis of Canine Epicardial Electrogram: Short-term Variations in the Frequency Content Induced by Myocardial Ischemia, 1681

Dose-response curves

Muscle Length, Shortening, Myoplasmic $[Ca^{2+}]$, and Activation of Arterial Smooth Muscle, 1354

Down-regulation

Functional Implications of Decreased Renal Cortical Atrial Natriuretic Peptide Binding in Experimental Diabetes, 1453

E**Efferent cardiac response**

Prostaglandins in the Pericardial Fluid Modulate Neural Regulation of Cardiac Electrophysiological Properties, 163

Efferent sympathetic denervation

Presynaptic Modulation of Efferent Sympathetic and Vagal Neurotransmission in the Canine Heart by Hypoxia, High K^+ , Low pH, and Adenosine: Possible Relevance to Ischemia-Induced Denervation, 289

Efferent vagal denervation

Presynaptic Modulation of Efferent Sympathetic and Vagal Neurotransmission in the Canine Heart by Hypoxia, High K^+ , Low pH, and Adenosine: Possible Relevance to Ischemia-Induced Denervation, 289

Eicosanoids

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Elastance

Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218

Elastase

Alterations in Elastin and Collagen Related to the Mechanism of Progressive Pulmonary Venous Obstruction in a Piglet Model: A Hemodynamic, Ultrastructural, and Biochemical Study, 438

Elastic artery

In Vitro Study of the Influence of Radial Wall Motion on Wall Shear Stress in an Elastic Tube Model of the Aorta, 1624

Elasticity

In Vivo Viscoelastic Behavior in the Human Aorta, 1413

Elastin

Alterations in Elastin and Collagen Related to the Mechanism of Progressive Pulmonary Venous Obstruction in a Piglet Model: A Hemodynamic, Ultrastructural, and Biochemical Study, 438

Collagen and Elastin Metabolism in Hypertensive Pulmonary Arteries of Rats, 968

Electrocardiography

Spatial Domain Analysis of Late Ventricular Potentials: Intraoperative and Thoracic Correlations, 55

Sympathetic Neural Modulation of Cardiac Impulse Initiation and Repolarization in the Newborn Rat, 427

Electrogenic pumping

Effects of α -Adrenergic Stimulation on Intracellular Sodium Activity and Automaticity in Canine Purkinje Fibers, 416

Electron microscopy

Morphological Development of the Rat Heart Growing In Oculo in the Absence of Hemodynamic Work Load, 84

Electron paramagnetic resonance

Detection of Oxygen-Derived Free Radical Generation in the Canine Postischemic Heart During Late Phase of Reperfusion, 1160

Electrophysiology

Bistabilities and Annihilation Phenomena in Electrophysiological Cardiac Models, 1658

Electrical Properties of Canine Subendocardial Purkinje Fibers Surviving in 1-Day-Old Experimental Myocardial Infarction, 123

Role of the Vascular Endothelium in Regulating the Response of Small Arteries of the Dog Kidney to Transmural Pressure Elevation and Reduced PO_2 , 1427

Endocardial cells

Electrophysiological Properties and Responses to Simulated Ischemia in Cat Ventricular Myocytes of Endocardial and Epicardial Origin, 469

Endocardium

Does Endocardial Endothelium Mediate Positive Inotropic Response to Angiotensin I and Angiotensin II?, 1591

Endothelial cells

Chloride Efflux in Cyclic AMP-Induced Configurational Change of Bovine Pulmonary Artery Endothelial Cells, 957

Localization of Adenosine Deaminase and Adenosine Deaminase Complexing Protein in Rabbit Heart: Implications for Adenosine Metabolism, 754

Polymorphonuclear Leukocytes Induced Vasoconstriction in Isolated Canine Coronary Arteries, 253

Endothelial dysfunction

Functional Coronary Microvascular Injury Evident As Increased Permeability Due to Brief Ischemia and Reperfusion, 986

Endothelial transport

Low Density Lipoprotein Transport Across a Microvascular Endothelial Barrier After Permeability Is Increased, 486

Endothelin

Effects of Endothelin on Coronary Flow, Mechanical Performance, Oxygen Uptake, and Formation of Purines and on Outflow of Prostacyclin in the Isolated Rabbit Heart, 46

Endothelium

Endothelium-Dependent Mechanical Properties of the Carotid Artery in WKY and SHR: Role of Angiotensin Converting Enzyme Inhibition, 321

Gap Junction Messenger RNA Expression by Vascular Wall Cells, 1074

Role of the Vascular Endothelium in Regulating the Response of Small Arteries of the Dog Kidney to Transmural Pressure Elevation and Reduced PO_2 , 1427

Vascular Reactivity During the Progression of Atherosclerotic Plaque: A Study in Watanabe Heritable Hyperlipidemic Rabbits, 1112

Endothelium-dependent relaxation

Functional Coronary Microvascular Injury Evident As Increased Permeability Due to Brief Ischemia and Reperfusion, 986

Rapid and Reversible Inhibition by Low Density Lipoprotein of the Endothelium-Dependent Relaxation to Hemostatic Substances in Porcine Coronary Arteries: Heat and Acid Labile Factors in Low Density Lipoprotein Mediate the Inhibition, 18

Endothelium-dependent vasodilation

Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355

Endothelium-derived relaxing factor

Control of Coronary Vascular Tone by Nitric Oxide, 1561

Endothelium and Myocardial Protecting Actions of Taprosiene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Oxidized Low Density Lipoproteins Potentiate Vasoconstrictions to Various Agonists by Direct Interaction With Vascular Smooth Muscle, 1287

Role of Endothelium-Derived Relaxing Factor and Prostaglandins in Responses of Coronary Arteries to Thromboxane In Vivo, 1729

Vascular Reactivity During the Progression of Atherosclerotic Plaque: A Study in Watanabe Heritable Hyperlipidemic Rabbits, 1112

Endothelium-derived vasoconstrictive factor

Polymorphonuclear Leukocytes Induced Vasoconstriction in Isolated Canine Coronary Arteries, 253

Energy

Dobutamine Potentiates Amrinone's Beneficial Effects in Moderate but Not in Advanced Heart Failure: ^{31}P -MRS in Isolated Hamster Hearts, 747

Epicardial cells

Electrophysiological Properties and Responses to Simulated Ischemia in Cat Ventricular Myocytes of Endocardial and Epicardial Origin, 469

Epicardial coronary vasoconstriction

Ischemia-Induced Epicardial Vasoconstriction: A Potential Mechanism for Distant Myocardial Ischemia, 1484

Epicardial current density

Importance of the Great Vessels in the Genesis of the Electrocardiogram, 1081

Epicardial mapping

Effect of Cellular Uncoupling by Heptanol on Conduction in Infarcted Myocardium, 202

Epicardial potentials

Noninvasive Recovery of Epicardial Potentials in a Realistic Heart-Torso Geometry: Normal Sinus Rhythm, 1023

Epicardial superfusion

Prostaglandins in the Pericardial Fluid Modulate Neural Regulation of Cardiac Electrophysiological Properties, 163

Epimycocardial microvessel

Diameter Change and Pressure-Red Blood Cell Velocity Relations in Coronary Microvessels During Long Diastoles in the Canine Left Ventricle, 503

Epoxygenase

Synthesis of Lipoxygenase and Epoxygenase Products of Arachidonic Acid by Normal and Stenosed Canine Coronary Arteries, 608

Ethenoadenosine

Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457

Excitation-contraction coupling

Quantification of $[\text{Ca}^{2+}]_i$ in Perfused Hearts: Critical Evaluation of the 5F-BAPTA and Nuclear Magnetic Resonance Method as Applied to the Study of Ischemia and Reperfusion, 1255

Exercise

Myocardial Effects of Selective α -Adrenoceptor Blockade During Exercise in Dogs, 1703

Extracellular calcium

Passive Electrical Properties, Mechanical Activity, and Extracellular Potassium in Arterially Perfused and Ischemic Rabbit Ventricular Muscle: Effects of Calcium Entry Blockade or Hypocalcemia, 1461

Extracellular potassium

Passive Electrical Properties, Mechanical Activity, and Extracellular Potassium in Arterially Perfused and Ischemic Rabbit Ventricular Muscle: Effects of Calcium Entry Blockade or Hypocalcemia, 1461

Extrinsic denervation

Immunohistochemical Demonstration of Human Cardiac Innervation Before and After Transplantation, 900

F **^{19}F NMR**

Correlation Between Cytosolic Free Calcium, Contracture, ATP, and Irreversible Ischemic Injury in Perfused Rat Heart, 135

Failing myocardium

Nitrendipine Binding in Congestive Heart Failure Due to Myocardial Infarction, 782

Fatty acid binding protein

Protective Role of Intracoronary Fatty Acid Binding Protein in Ischemic and Reperfused Myocardium, 1535

Fatty acids

Glucose and Palmitate Oxidation in Isolated Working Rat Hearts Reperfused After a Period of Transient Global Ischemia, 546

5F-BAPTA

Correlation Between Cytosolic Free Calcium, Contracture, ATP, and Irreversible Ischemic Injury in Perfused Rat Heart, 135

Fibrinolysis

Accelerated Thrombolysis and Reperfusion in a Canine Model of Myocardial Infarction by Liposomal Encapsulation of Streptokinase, 875

Fibrogenicity

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Flecainide

Interactions of Flecainide With Guinea Pig Cardiac Sodium Channels: Importance of Activation Unblocking to the Voltage Dependence of Recovery, 789

Floating objective

Diameter Change and Pressure-Red Blood Cell Velocity Relations in Coronary Microvessels During Long Diastoles in the Canine Left Ventricle, 503

Flow

Flow-Induced Constriction and Dilation of Cerebral Resistance Arteries, 1445

Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218

Flow disturbance

Flow Patterns and Spatial Distribution of Atherosclerotic Lesions in Human Coronary Arteries, 1045

Flow heterogeneity

Molecular and Particulate Depositions for Regional Myocardial Flows in Sheep, 1328

Flow-mediated dilation

Ischemia-Induced Epicardial Vasoconstriction: A Potential Mechanism for Distant Myocardial Ischemia, 1484

Flow patterns

Flow Patterns and Spatial Distribution of Atherosclerotic Lesions in Human Coronary Arteries, 1045

Fluorescent Ca^{2+} indicator

Spatial Heterogeneity of Intracellular Ca^{2+} Concentration in Nonbeating Guinea Pig Ventricular Myocytes, 241

Fluorescent microscopy

Congruence of Total and Perfused Capillary Network in Rat Brains, 271

Force

Changes in Myofibrillar Activation and Troponin C Ca^{2+} Binding Associated With Troponin T Isoform Switching in Developing Rabbit Heart, 1204

Force-velocity relation

Force and Velocity of Sarcomere Shortening in Trabeculae From Rat Heart: Effects of Temperature, 1239

Forearm skin and muscle blood flow

Direct Neurohumoral Evidence for Isolated Sympathetic Nervous System Activation to Skeletal Muscle in Response to Cardiopulmonary Baroreceptor Unloading, 1720

Free radical scavengers

Thromboxane B_2 in Cardiac Lymph: Effect of Superoxide Dismutase and Catalase During Myocardial Ischemia and Reperfusion, 1040

Free radicals

Role of Oxygen-Derived Free Radicals in Acute Angiotensin II-Induced Hypertensive Vascular Disease in the Rat, 722

Frog mesentery

Evidence for Cholinergic Regulation of Microvessel Hydraulic Conductance During Tissue Hypoxia, 517

Functional conduction block

Ventricular Arrhythmias in the Subacute Myocardial Infarction Period: High-Resolution Activation and Refractory Patterns of Reentrant Rhythms, 1310

Functional refractory period

Cellular Mechanism of the Functional Refractory Period in Ventricular Muscle, 147

G**Gap junctions**

Gap Junction Messenger RNA Expression by Vascular Wall Cells, 1074

Unidirectional Block and Reentry of Cardiac Excitation: A Model Study, 367

Glibenclamide

- Reduction of Ischemic K^+ Loss and Arrhythmias in Rat Hearts: Effect of Glibenclamide, a Sulfonylurea, 478

Glucose

- Glucose Flux Rate Regulates Onset of Ischemic Contracture in Globally Underperfused Rat Hearts, 344
- Influence of Glucose and Insulin on the Exaggerated Diastolic and Systolic Dysfunction of Hypertrophied Rat Hearts During Hypoxia, 406

Glucose oxidation

- Glucose and Palmitate Oxidation in Isolated Working Rat Hearts Reperfused After a Period of Transient Global Ischemia, 546
- Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Glycogen utilization

- Ischemic Preconditioning Slows Energy Metabolism and Delays Ultrastructural Damage During a Sustained Ischemic Episode, 913

G proteins

- Effects of Prolonged Hypoxia on Adenylate Cyclase Activity and β -Adrenergic Receptors in Pulmonary and Systemic Arteries of the Rat, 1526

Gracilis muscle

- Neutrophil-Mediated Microvascular Dysfunction in Posts ischemic Canine Skeletal Muscle: Role of Granulocyte Adherence, 1436

Graded response

- Comparison of Activation During Ventricular Fibrillation and Following Unsuccessful Defibrillation Shocks in Open-Chest Dogs, 1544

Gradient of refractoriness

- Ventricular Arrhythmias in the Subacute Myocardial Infarction Period: High-Resolution Activation and Refractory Patterns of Reentrant Rhythms, 1310

Granulocytes

- Neutrophil-Mediated Microvascular Dysfunction in Posts ischemic Canine Skeletal Muscle: Role of Granulocyte Adherence, 1436

Growth factors

- Morphological Development of the Rat Heart Growing In Oculo in the Absence of Hemodynamic Work Load, 84

Guanine nucleotide regulatory proteins

- 5-Hydroxytryptamine Induces Phospholipase C-Mediated Hydrolysis of Phosphoinositides Through 5-Hydroxytryptamine-2 Receptors in Cultured Fetal Mouse Ventricular Myocytes, 1474
- Sympathetic Neural Modulation of Cardiac Impulse Initiation and Repolarization in the Newborn Rat, 427

Guinea pigs

- Effects of Quinidine on the Sodium Current of Guinea Pig Ventricular Myocytes: Evidence for a Drug-Associated Rested State with Altered Kinetics, 565

H**Hamsters**

- Angiotensins and the Failing Heart: Enhanced Positive Inotropic Response to Angiotensin I in Cardiomyopathic Hamster Heart in the Presence of Captopril, 891

Hamster cardiomyopathy

- Regulatory Proteins in Hamster Cardiomyopathy, 1302

Heart

- Evidence for the Existence of Inositol Tetrakisphosphate in Mammalian Heart: Effect of α_1 -Adrenoceptor Stimulation, 580
- Glucose and Palmitate Oxidation in Isolated Working Rat Hearts Reperfused After a Period of Transient Global Ischemia, 546
- Protective Role of Intracoronary Fatty Acid Binding Protein in Ischemic and Reperfused Myocardium, 1535
- Sympathetic and Nonsympathetic Neuropeptide Y-Containing Nerves in the Rat Myocardium and Coronary Arteries, 1602

Heart defect

- Reduced L-Type Calcium Current in the Embryonic Chick Heart with Persistent Truncus Arteriosus, 1491

Heart failure

- Dobutamine Potentiates Amrinone's Beneficial Effects in Moderate but Not in Advanced Heart Failure: ^{31}P -MRS in Isolated Hamster Hearts, 747
- Exercise-Induced Subendocardial Dysfunction in Dogs With Left Ventricular Hypertrophy, 329
- Vasodilatory Action of Endogenous Atrial Natriuretic Factor in a Rat Model of Chronic Heart Failure as Determined by Monoclonal ANF Antibody, 1371

Heart rate

- Chronotropic and Dromotropic Responses to Stimulation of Intracardiac Sympathetic Nerves to Sinoatrial or Atrioventricular Nodal Region in Anesthetized Dogs, 1391
- Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457

Heat stress

- Baroreflex Control of the Cutaneous Active Vasodilator System in Humans, 1420

Hemodynamics

- Left Ventricular Failure Induced by Long-term Hypertension in Rats, 1400

Hemorrhage

- Sexual Dimorphism in Vasopressin and Cardiovascular Response to Hemorrhage in the Rat, 1345

Hemostatic substances

- Rapid and Reversible Inhibition by Low Density Lipoprotein of the Endothelium-Dependent Relaxation to Hemostatic Substances in Porcine Coronary Arteries: Heat and Acid Labile Factors in Low Density Lipoprotein Mediate the Inhibition, 18

Heptanol

- Effect of Cellular Uncoupling by Heptanol on Conduction in Infarcted Myocardium, 202

Hibernation

- Myocardial Hibernation in the Ischemic Neonatal Heart, 763

High altitude

- Mast Cells in the Rat Heart During Normal Growth and in Cardiac Hypertrophy, 511

High current density

- Conduction Disturbances Caused by High Current Density Electric Fields, 1190

High-density mapping

- Ventricular Arrhythmias in the Subacute Myocardial Infarction Period: High-Resolution Activation and Refractory Patterns of Reentrant Rhythms, 1310

High-frequency ECG

- Spectral Analysis of Canine Epicardial Electrogram: Short-term Variations in the Frequency Content Induced by Myocardial Ischemia, 1681

Histamine

- Muscle Length, Shortening, Myoplasmic $[\text{Ca}^{2+}]$, and Activation of Arterial Smooth Muscle, 1354

Hot-film anemometry

- In Vitro Study of the Influence of Radial Wall Motion on Wall Shear Stress in an Elastic Tube Model of the Aorta, 1624

Human atrium

- Three Different Potassium Channels in Human Atrium: Contribution to the Basal Potassium Conductance, 1277

Human heart

- Angiotensin II-Forming Pathways in Normal and Failing Human Hearts, 883
- Flow Patterns and Spatial Distribution of Atherosclerotic Lesions in Human Coronary Arteries, 1045
- Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311
- Two Stable Levels of Diastolic Potential at Physiological K^+ Concentrations in Human Ventricular Myocardial Cells, 191

Human myocardium

- Selective β_1 -Adrenoceptor Blockade Enhances Positive Inotropic Responses to Endogenous Catecholamines Mediated Through β_2 -Adrenoceptors in Human Atrial Myocardium, 1610

Hydraulic conductivity

Evidence for Cholinergic Regulation of Microvessel Hydraulic Conductance During Tissue Hypoxia, 517

Hydrogen ion

Effect of Acidosis on Contraction of Microvascular Smooth Muscle by α_1 - and α_2 -Adrenoceptors: Implications for Neural and Metabolic Regulation, 1643

Hyperkalemia

Presynaptic Modulation of Efferent Sympathetic and Vagal Neurotransmission in the Canine Heart by Hypoxia, High K^+ , Low pH, and Adenosine: Possible Relevance to Ischemia-Induced Denervation, 289

Hypertension

Collagen and Elastin Metabolism in Hypertensive Pulmonary Arteries of Rats, 968

Effect of Transmural Pressure on Low Density Lipoprotein and Albumin Transport and Distribution Across the Intact Arterial Wall, 1692

Left Ventricular Failure Induced by Long-term Hypertension in Rats, 1400

Mast Cells in the Rat Heart During Normal Growth and in Cardiac Hypertrophy, 511

Regulation of Myosin Heavy Chain Expression in the Hearts of Hypertensive Rats by Testosterone, 1585

Role of Oxygen-Derived Free Radicals in Acute Angiotensin II-Induced Hypertensive Vascular Disease in the Rat, 722

Hyperthyroid

The Hyperthyroid Heart: An Analysis of Systolic and Diastolic Properties in Single Rat Ventricular Myocytes, 773

Hypertrophy

Differences in Myosin Isoform Expression in the Subepicardial and Subendocardial Myocardium During Cardiac Hypertrophy in the Rat, 1127

Functional and Morphological Characteristics of Compensated and Decompensated Cardiac Hypertrophy in Dogs With Chronic Infrarenal Aorto-caval Fistulas, 846

Influence of Glucose and Insulin on the Exaggerated Diastolic and Systolic Dysfunction of Hypertrophied Rat Hearts During Hypoxia, 406

Hypotension

Relative Roles of Cardiac Receptors and Arterial Baroreceptors During Hemorrhage in Conscious Dogs, 397

Hypoxia

Collagen and Elastin Metabolism in Hypertensive Pulmonary Arteries of Rats, 968

Effects of Amiloride on Metabolism and Contractility During Reoxygenation in Perfused Rat Hearts, 1012

Effects of Prolonged Hypoxia on Adenylate Cyclase Activity and β -Adrenergic Receptors in Pulmonary and Systemic Arteries of the Rat, 1526

Evidence for Cholinergic Regulation of Microvessel Hydraulic Conductance During Tissue Hypoxia, 517

Influence of Glucose and Insulin on the Exaggerated Diastolic and Systolic Dysfunction of Hypertrophied Rat Hearts During Hypoxia, 406

Presynaptic Modulation of Efferent Sympathetic and Vagal Neurotransmission in the Canine Heart by Hypoxia, High K^+ , Low pH, and Adenosine: Possible Relevance to Ischemia-Induced Denervation, 289

Role of the Vascular Endothelium in Regulating the Response of Small Arteries of the Dog Kidney to Transmural Pressure Elevation and Reduced PO_2 , 1427

The Role of Mitochondria and Sarcoplasmic Reticulum Calcium Handling Upon Reoxygenation of Hypoxic Myocardium, 696

Hysteresis

Bistabilities and Annihilation Phenomena in Electrophysiological Cardiac Models, 1658

I**Idazoxan**

Myocardial Effects of Selective α -Adrenoceptor Blockade During Exercise in Dogs, 1703

 I_{K1}

Three Different Potassium Channels in Human Atrium: Contribution to the Basal Potassium Conductance, 1277

Immunohistochemistry

Immunohistochemical Demonstration of Human Cardiac Innervation Before and After Transplantation, 900

Impedance

In Vitro Study of the Influence of Radial Wall Motion on Wall Shear Stress in an Elastic Tube Model of the Aorta, 1624

In oculo myocardial growth

Morphological Development of the Rat Heart Growing In Oculo in the Absence of Hemodynamic Work Load, 84

In vitro perfused artery

Oxidized Low Density Lipoproteins Potentiate Vasoconstrictions to Various Agonists by Direct Interaction With Vascular Smooth Muscle, 1287

In vivo human measurement

In Vivo Viscoelastic Behavior in the Human Aorta, 1413

Increased flow

Substance P Is Released From the Endothelium of Normal and Capsaicin-Treated Rat Hind-Limb Vasculature, In Vivo, by Increased Flow, 1178

Indicator dilution

Myocardial Transport of Hexakis (2-methoxyisobutylisonitrile) and Thallium Before and After Coronary Reperfusion, 1738

Indirect immunofluorescence

Congruence of Total and Perfused Capillary Network in Rat Brains, 271

Indomethacin

Does Endocardial Endothelium Mediate Positive Inotropic Response to Angiotensin I and Angiotensin II?, 1591

Infarct

Effect of Cellular Uncoupling by Heptanol on Conduction in Infarcted Myocardium, 202

Ischemic Preconditioning Reduces Infarct Size in Swine Myocardium, 1133

Inferior infarction

Importance of the Great Vessels in the Genesis of the Electrocardiogram, 1081

Inhalation injury

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

Initial strain

Residual Strain in Rat Left Ventricle, 37

Initial stress

Residual Strain in Rat Left Ventricle, 37

Innervation

Sympathetic and Nonsympathetic Neuropeptide Y-Containing Nerves in the Rat Myocardium and Coronary Arteries, 1602

Inosine

Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

Inositol tetrakisphosphate

Evidence for the Existence of Inositol Tetrakisphosphate in Mammalian Heart: Effect of α_1 -Adrenoceptor Stimulation, 580

Inositol trisphosphate

Evidence for the Existence of Inositol Tetrakisphosphate in Mammalian Heart: Effect of α_1 -Adrenoceptor Stimulation, 580

Inotropy

Angiotensins and the Failing Heart: Enhanced Positive Inotropic Response to Angiotensin I in Cardiomyopathic Hamster Heart in the Presence of Captopril, 891

Insulin

Influence of Glucose and Insulin on the Exaggerated Diastolic and Systolic Dysfunction of Hypertrophied Rat Hearts During Hypoxia, 406

Insulin-like growth factor I

Induction of Insulin-Like Growth Factor I Messenger RNA in Rat Aorta After Balloon Denudation, 1755

Intercellular communication

Gap Junction Messenger RNA Expression by Vascular Wall Cells, 1074

Internal mammary artery

Interaction Between Endothelin-1 and Endothelium-Derived Relaxing Factor in Human Arteries and Veins, 1088

Internal mammary vein

Interaction Between Endothelin-1 and Endothelium-Derived Relaxing Factor in Human Arteries and Veins, 1088

Intimal cells

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Intracardiac sympathetic nerve stimulation

Chronotropic and Dromotropic Responses to Stimulation of Intracardiac Sympathetic Nerves to Sinoatrial or Atrioventricular Nodal Region in Anesthetized Dogs, 1391

Intracellular calcium

Changes in Intracellular Calcium During Mechanical Alternans in Isolated Ferret Ventricular Muscle, 585

Effects of Intracellular Acidosis on $[Ca^{2+}]_i$ Transients, Transsarcolemmal Ca^{2+} Fluxes, and Contraction in Ventricular Myocytes, 622

Spatial Heterogeneity of Intracellular Ca^{2+} Concentration in Nonbeating Guinea Pig Ventricular Myocytes, 241

Intracellular calcium concentration

Excitation-Contraction Coupling in Postischemic Myocardium: Does Failure of Activator Ca^{2+} Transients Underlie Stunning?, 1268

Intracellular microelectrodes

Two Stable Levels of Diastolic Potential at Physiological K^+ Concentrations in Human Ventricular Myocardial Cells, 191

Intracellular pH

Effects of Intracellular Acidosis on $[Ca^{2+}]_i$ Transients, Transsarcolemmal Ca^{2+} Fluxes, and Contraction in Ventricular Myocytes, 622

Intraluminal pressure

Coronary Arteriolar Myogenic Response Is Independent of Endothelium, 860

Intravital microscope

Diameter Change and Pressure-Red Blood Cell Velocity Relations in Coronary Microvessels During Long Diastoles in the Canine Left Ventricle, 503

Heterogeneous Changes in Epimycardial Microvascular Size During Graded Coronary Stenosis: Evidence of the Microvascular Site for Autoregulation, 389

Inverse recovery

Noninvasive Recovery of Epicardial Potentials in a Realistic Heart-Torso Geometry: Normal Sinus Rhythm, 1023

2-Iododesmethylmipramine

Molecular and Particulate Depositions for Regional Myocardial Flows in Sheep, 1328

Ion-selective microelectrodes

Effects of α -Adrenergic Stimulation on Intracellular Sodium Activity and Automaticity in Canine Purkinje Fibers, 416

Ischemia

Actions of Adenosine on Nitro Blue Tetrazolium Deposition and Surface pH During Intestinal Reperfusion Injury, 1713

Changes in Intracellular Calcium During Mechanical Alternans in Isolated Ferret Ventricular Muscle, 585

Electrophysiological Properties and Responses to Simulated Ischemia in Cat Ventricular Myocytes of Endocardial and Epicardial Origin, 469

Glucose and Palmitate Oxidation in Isolated Working Rat Hearts Reperfused After a Period of Transient Global Ischemia, 546

Glucose Flux Rate Regulates Onset of Ischemic Contracture in Globally Underperfused Rat Hearts, 344

Heterogeneous Changes in Epimycardial Microvascular Size During Graded Coronary Stenosis: Evidence of the Microvascular Site for Autoregulation, 389

Importance of the Great Vessels in the Genesis of the Electrocardiogram, 1081

Ischemic Preconditioning Slows Energy Metabolism and Delays Ultrastructural Damage During a Sustained Ischemic Episode, 913

Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Neutrophil-Mediated Microvascular Dysfunction in Postischemic Canine Skeletal Muscle: Role of Granulocyte Adherence, 1436

Passive Electrical Properties, Mechanical Activity, and Extracellular Potassium in Arterially Perfused and Ischemic Rabbit Ventricular Muscle: Effects of Calcium Entry Blockade or Hypocalcemia, 1461

Presynaptic Modulation of Efferent Sympathetic and Vagal Neurotransmission in the Canine Heart by Hypoxia, High K^+ , Low pH, and Adenosine: Possible Relevance to Ischemia-Induced Denervation, 289

Protective Role of Intracoronary Fatty Acid Binding Protein in Ischemic and Reperfused Myocardium, 1535

Reduction of Ischemic K^+ Loss and Arrhythmias in Rat Hearts: Effect of Glibenclamide, a Sulfonyleurea, 478

Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

Ischemia and reperfusion

Functional Coronary Microvascular Injury Evident As Increased Permeability Due to Brief Ischemia and Reperfusion, 986

Ischemia/rewflow

Metabolic Oxidation of Pyruvate and Lactate During Early Myocardial Reperfusion, 282

Ischemia-reperfusion injury

Calcium Entry Blockade Prevents Leakage of Macromolecules Induced by Ischemia-Reperfusion in Skeletal Muscle, 1636

Isoenzymes

Isoform Distribution and Tissue Contents of Contractile and Cytoskeletal Proteins in Hypertrophied Smooth Muscle From Rat Portal Vein, 832

Isolated arterioles

Coronary Arteriolar Myogenic Response Is Independent of Endothelium, 860

Isolated cell

Cellular Mechanism of the Functional Refractory Period in Ventricular Muscle, 147

Isolated heart

Effects of Endothelin on Coronary Flow, Mechanical Performance, Oxygen Uptake, and Formation of Purines and on Outflow of Prostacyclin in the Isolated Rabbit Heart, 46

Glucose and Palmitate Oxidation in Isolated Working Rat Hearts Reperfused After a Period of Transient Global Ischemia, 546

Isonitriles

Myocardial Transport of Hexakis(2-methoxyisobutyl)isonitrile and Thallium Before and After Coronary Reperfusion, 1738

Isoproterenol

Acetylcholine Reverses Effects of β -Agonists on Pacemaker Current in Canine Cardiac Purkinje Fibers but Has No Direct Action: A Difference Between Primary and Secondary Pacemakers, 633

Decreased Contractile Efficiency and Increased Nonmechanical Energy Cost in Hyperthyroid Rabbit Heart: Relation Between O_2 Consumption and Systolic Pressure-Volume Area or Force-Time Integral, 999

Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

J**Jejunum**

Actions of Adenosine on Nitro Blue Tetrazolium Deposition and Surface pH During Intestinal Reperfusion Injury, 1713

Junctional conductance

ATP Directly Affects Junctional Conductance Between Paired Ventricular Myocytes Isolated From Guinea Pig Heart, 1095

K **K^+ channel**

Reduction of Ischemic K^+ Loss and Arrhythmias in Rat Hearts: Effect of Glibenclamide, a Sulfonyleurea, 478

Kidney

Response of Superficial Proximal Convoluted Tubule to Decreased and Increased Renal Perfusion Pressure: In Vivo Microperfusion Study in Rats, 1184

Kinins

Bradykinin Contribution to Renal Blood Flow Effect of Angiotensin Converting Enzyme Inhibitor in the Conscious Sodium-Restricted Dog, 234

L**Lactate**

Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

Lactate dehydrogenase

Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457

Lactate oxidation

Metabolic Oxidation of Pyruvate and Lactate During Early Myocardial Reperfusion, 282

Laser diffraction techniques

Force and Velocity of Sarcomere Shortening in Trabeculae From Rat Heart: Effects of Temperature, 1239

Laser-Doppler velocimetry

Baroreflex Control of the Cutaneous Active Vasodilator System in Humans, 1420

Late potentials

Spatial Domain Analysis of Late Ventricular Potentials: Intraoperative and Thoracic Correlations, 55

Lead systems

Noninvasive Recovery of Epicardial Potentials in a Realistic Heart-Torso Geometry: Normal Sinus Rhythm, 1023

Left ventricle

Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218

Left ventricular failure

Left Ventricular Failure Induced by Long-term Hypertension in Rats, 1400

Left ventricular filling

Effect of Loading Conditions, Contractile State, and Heart Rate on Early Diastolic Left Ventricular Filling in Conscious Dogs, 814

Length-tension relation

Muscle Length, Shortening, Myoplasmic $[Ca^{2+}]$, and Activation of Arterial Smooth Muscle, 1354

Leukocyte activation

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Leukotrienes

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Ligand-receptor interaction

ATP Directly Affects Junctional Conductance Between Paired Ventricular Myocytes Isolated From Guinea Pig Heart, 1095

Lipidogenicity

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Lipoprotein oxidation

Oxidized Low Density Lipoproteins Potentiate Vasoconstrictions to Various Agonists by Direct Interaction With Vascular Smooth Muscle, 1287

Liposomes

Accelerated Thrombolysis and Reperfusion in a Canine Model of Myocardial Infarction by Liposomal Encapsulation of Streptokinase, 875

Lipoxygenase

Synthesis of Lipoxygenase and Epoxigenase Products of Arachidonic Acid by Normal and Stenosed Canine Coronary Arteries, 608

Low density lipoprotein

Acceleration of Platelet Aggregability Due to Modulation of Native LDL, 1166

Effect of Transmural Pressure on Low Density Lipoprotein and Albumin Transport and Distribution Across the Intact Arterial Wall, 1692

Low Density Lipoprotein Transport Across a Microvascular Endothelial Barrier After Permeability Is Increased, 486

Rapid and Reversible Inhibition by Low Density Lipoprotein of the Endothelium-Dependent Relaxation to Hemostatic Substances in Porcine Coronary Arteries: Heat and Acid Labile Factors in Low Density Lipoprotein Mediate the Inhibition, 18

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Lower body negative pressure

Direct Neurohumoral Evidence for Isolated Sympathetic Nervous System Activation to Skeletal Muscle in Response to Cardiopulmonary Baroreceptor Unloading, 1720

LTA₄ steal

Polymorphonuclear Leukocytes Induced Vasoconstriction in Isolated Canine Coronary Arteries, 253

LTC₄

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

LTD₄

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Lung

Pulmonary Venous Responses to Thromboxane A_2 Analogue and Atrial Natriuretic Peptide in Lambs, 496

Lung lymph fistula

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

LY171883

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Lysophosphatidylcholine

Electrophysiological Properties and Responses to Simulated Ischemia in Cat Ventricular Myocytes of Endocardial and Epicardial Origin, 469

M**Magnesium**

Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355

Magnetic resonance spectroscopy

Dobutamine Potentiates Amrinone's Beneficial Effects in Moderate but Not in Advanced Heart Failure: ^{31}P -MRS in Isolated Hamster Hearts, 747

Postischemic Recovery of Mechanical Performance and Energy Metabolism in the Presence of Left Ventricular Hypertrophy: A ^{31}P -MRS Study, 735

Mathematical modeling

Experimental and Modeling Study of the Excitability of Carotid Sinus Baroreceptors, 1510

Mechanical properties

Endothelium-Dependent Mechanical Properties of the Carotid Artery in WKY and SHR: Role of Angiotensin Converting Enzyme Inhibition, 321

Mechanical stunning

Metabolic Oxidation of Pyruvate and Lactate During Early Myocardial Reperfusion, 282

Mechanoreceptors

Firing Characteristics of Single-Fiber Carotid Sinus Baroreceptors, 1499

Membrane excitability

Unidirectional Block and Reentry of Cardiac Excitation: A Model Study, 367

Mesothelium

Influence of β -Adrenergic Stimulation and Contraction Frequency on Rat Heart Interstitial Adenosine, 457

Metabolism

Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

Metaboreceptors

Skeletal Muscle Metaboreceptor Stimulation Opposes Peak Metabolic Vasodilation in Humans, 1576

Microcirculation

Effect of Acidosis on Contraction of Microvascular Smooth Muscle by α_1 - and α_2 -Adrenoceptors: Implications for Neural and Metabolic Regulation, 1643

Effect of Wall Shear Rate on Thrombogenesis in Microvessels of the Rat Mesentery, 941

Evidence for Cholinergic Regulation of Microvessel Hydraulic Conductance During Tissue Hypoxia, 517

Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

Role of the Vascular Endothelium in Regulating the Response of Small Arteries of the Dog Kidney to Transmural Pressure Elevation and Reduced PO_2 , 1427

Microneurography

Direct Neurohumoral Evidence for Isolated Sympathetic Nervous System Activation to Skeletal Muscle in Response to Cardiopulmonary Baroreceptor Unloading, 1720

Microspheres

Coronary Microvascular Responses to Reductions in Perfusion Pressure: Evidence for Persistent Arteriolar Vasomotor Tone During Coronary Hypoperfusion, 1227

Molecular and Particulate Depositions for Regional Myocardial Flows in Sheep, 1328

Microvascular injury

Functional Coronary Microvascular Injury Evident As Increased Permeability Due to Brief Ischemia and Reperfusion, 986

Microvascular permeability

Calcium Entry Blockade Prevents Leakage of Macromolecules Induced by Ischemia-Reperfusion in Skeletal Muscle, 1636

Microvessels

Low Density Lipoprotein Transport Across a Microvascular Endothelial Barrier After Permeability Is Increased, 486

Mitochondria

Intermittent Ischemia Produces a Cumulative Depletion of Mitochondrial Adenine Nucleotides in the Isolated Perfused Rat Heart, 302

Spatial Heterogeneity of Intracellular Ca^{2+} Concentration in Nonbeating Guinea Pig Ventricular Myocytes, 241

The Role of Mitochondria and Sarcoplasmic Reticulum Calcium Handling Upon Reoxygenation of Hypoxic Myocardium, 696

Mitogenicity

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Models

Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218

Molecular microsphere

Molecular and Particulate Depositions for Regional Myocardial Flows in Sheep, 1328

Monoclonal ANF antibody

Vasodilatory Action of Endogenous Atrial Natriuretic Factor in a Rat Model of Chronic Heart Failure as Determined by Monoclonal ANF Antibody, 1371

Monoclonal antibodies

Neutrophil-Mediated Microvascular Dysfunction in Posts ischemic Canine Skeletal Muscle: Role of Granulocyte Adherence, 1436

Morphometry

Left Ventricular Failure Induced by Long-term Hypertension in Rats, 1400

Morphological Development of the Rat Heart Growing In Oculo in the Absence of Hemodynamic Work Load, 84

Myeloperoxidase

Endothelium and Myocardial Protecting Actions of Taprostene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Myocardial blood flow

Coronary Microvascular Responses to Reductions in Perfusion Pressure: Evidence for Persistent Arteriolar Vasomotor Tone During Coronary Hypoperfusion, 1227

Exercise-Induced Subendocardial Dysfunction in Dogs With Left Ventricular Hypertrophy, 329

Heterogeneous Changes in Epimycocardial Microvascular Size During Graded Coronary Stenosis: Evidence of the Microvascular Site for Autoregulation, 389

Myocardial cable properties

Passive Electrical Properties, Mechanical Activity, and Extracellular Potassium in Arterially Perfused and Ischemic Rabbit Ventricular Muscle: Effects of Calcium Entry Blockade or Hypocalcemia, 1461

Myocardial contraction

Attenuation of Vasopressin-Mediated Coronary Constriction and Myocardial Depression in the Hypoxic Heart, 710

Myocardial Effects of Selective α -Adrenoceptor Blockade During Exercise in Dogs, 1703

Myocardial depression

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

Myocardial development

Morphological Development of the Rat Heart Growing In Oculo in the Absence of Hemodynamic Work Load, 84

Myocardial high-energy phosphates

Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Myocardial infarction

Accelerated Thrombolysis and Reperfusion in a Canine Model of Myocardial Infarction by Liposomal Encapsulation of Streptokinase, 875

Electrical Properties of Canine Subendocardial Purkinje Fibers Surviving in 1-Day-Old Experimental Myocardial Infarction, 123

Limitation of Myocardial Infarct Size by Superoxide Dismutase as an Adjunct to Reperfusion After Different Durations of Coronary Occlusion in the Pig, 1294

Myocardial ischemia

Attenuation of Vasopressin-Mediated Coronary Constriction and Myocardial Depression in the Hypoxic Heart, 710

Correlation Between Cytosolic Free Calcium, Contracture, ATP, and Irreversible Ischemic Injury in Perfused Rat Heart, 135

Failure of the Cholinergic Modulation of Norepinephrine Release During Acute Myocardial Ischemia in the Rat, 950

Intermittent Ischemia Produces a Cumulative Depletion of Mitochondrial Adenine Nucleotides in the Isolated Perfused Rat Heart, 302

Ischemia-Induced Epicardial Vasoconstriction: A Potential Mechanism for Distant Myocardial Ischemia, 1484

Mechanisms Underlying the Development of Ventricular Fibrillation During Early Myocardial Ischemia, 672

Role of Thromboxane A_2 in the Cardiovascular Response to Intracoronary C5a, 1103

Thromboxane B_2 in Cardiac Lymph: Effect of Superoxide Dismutase and Catalase During Myocardial Ischemia and Reperfusion, 1040

Myocardial oxygen consumption

Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

Ischemic Preconditioning Reduces Infarct Size in Swine Myocardium, 1133

Myocardial reperfusion

Thromboxane B_2 in Cardiac Lymph: Effect of Superoxide Dismutase and Catalase During Myocardial Ischemia and Reperfusion, 1040

Myocardium

Changes in Myofibrillar Activation and Troponin C Ca^{2+} Binding Associated With Troponin T Isoform Switching in Developing Rabbit Heart, 1204

Myocytes

5-Hydroxytryptamine Induces Phospholipase C-Mediated Hydrolysis of Phosphoinositides Through 5-Hydroxytryptamine-2 Receptors in Cultured Fetal Mouse Ventricular Myocytes, 1474

The Hyperthyroid Heart: An Analysis of Systolic and Diastolic Properties in Single Rat Ventricular Myocytes, 773

Myofibrils

Morphological Development of the Rat Heart Growing In Oculo in the Absence of Hemodynamic Work Load, 84

Myofilaments

Changes in Myofibrillar Activation and Troponin C Ca^{2+} Binding Associated With Troponin T Isoform Switching in Developing Rabbit Heart, 1204

Myogenic response

Role of the Vascular Endothelium in Regulating the Response of Small Arteries of the Dog Kidney to Transmural Pressure Elevation and Reduced PO_2 , 1427

Myogenic tone

Flow-Induced Constriction and Dilation of Cerebral Resistance Arteries, 1445

Myosin

Isoform Distribution and Tissue Contents of Contractile and Cytoskeletal Proteins in Hypertrophied Smooth Muscle From Rat Portal Vein, 832

Regulatory Proteins in Hamster Cardiomyopathy, 1302

Myosin heavy chain

Regulation of Myosin Heavy Chain Expression in the Hearts of Hypertensive Rats by Testosterone, 1585

Myosin heavy chain isozymes

Local Response to Cardiac Overload on Myosin Heavy Chain Gene Expression and Isozyme Transition, 1067

Myosin heavy chain mRNAs

Local Response to Cardiac Overload on Myosin Heavy Chain Gene Expression and Isozyme Transition, 1067

Myosin isoform

Differences in Myosin Isoform Expression in the Subepicardial and Subendocardial Myocardium During Cardiac Hypertrophy in the Rat, 1127

Myosin isozyme

Decreased Contractile Efficiency and Increased Nonmechanical Energy Cost in Hyperthyroid Rabbit Heart: Relation Between O_2 Consumption and Systolic Pressure-Volume Area or Force-Time Integral, 999

Myosin phosphorylation

Muscle Length, Shortening, Myoplasmic $[Ca^{2+}]$, and Activation of Arterial Smooth Muscle, 1354

N **Na^+ - Ca^{2+} exchange**

Canine Cardiac Sarcolemmal Vesicles Demonstrate Rapid Initial Na^+ - Ca^{2+} Exchange Activity, 1171

Effects of Amiloride on Metabolism and Contractility During Reoxygenation in Perfused Rat Hearts, 1012

Effects of Proton Buffering and of Amiloride Derivatives on Reperfusion Arrhythmias in Isolated Rat Hearts: Possible Evidence for an Arrhythmogenic Role of Na^+ - H^+ Exchange, 1156

 Na^+ - H^+ exchange

Effects of Proton Buffering and of Amiloride Derivatives on Reperfusion Arrhythmias in Isolated Rat Hearts: Possible Evidence for an Arrhythmogenic Role of Na^+ - H^+ Exchange, 1156

Native LDL

Acceleration of Platelet Aggregability Due to Modulation of Native LDL, 1166

Neointimal proliferation

Induction of Insulin-Like Growth Factor I Messenger RNA in Rat Aorta After Balloon Denudation, 1755

Neonatal lungs

Pulmonary Venous Responses to Thromboxane A_2 Analogue and Atrial Natriuretic Peptide in Lambs, 496

Neonate

Changes in Myofibrillar Activation and Troponin C Ca^{2+} Binding Associated With Troponin T Isoform Switching in Developing Rabbit Heart, 1204

Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Nerve stimulation

Failure of the Cholinergic Modulation of Norepinephrine Release During Acute Myocardial Ischemia in the Rat, 950

Neurohormones

Functional and Morphological Characteristics of Compensated and Decompensated Cardiac Hypertrophy in Dogs With Chronic Infrarenal Aorto-caval Fistulas, 846

Neuropeptide Y

Sympathetic and Nonsympathetic Neuropeptide Y-Containing Nerves in the Rat Myocardium and Coronary Arteries, 1602

Neuropeptides

Immunohistochemical Demonstration of Human Cardiac Innervation Before and After Transplantation, 900

Neutrophils

Endothelium and Myocardial Protecting Actions of Taprostene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Neutrophil-Mediated Microvascular Dysfunction in Postschismic Canine Skeletal Muscle: Role of Granulocyte Adherence, 1436

Newborn

Effect of Thromboxane A_2 /Endoperoxide Antagonist SQ29548 on the Contractile Response to Acetylcholine in Newborn Piglet Cerebral Arteries, 824

Nitrendipine binding

Nitrendipine Binding in Congestive Heart Failure Due to Myocardial Infarction, 782

Nitric oxide

Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355

Interaction Between Endothelin-1 and Endothelium-Derived Relaxing Factor in Human Arteries and Veins, 1088

Noninvasive measurement

In Vivo Viscoelastic Behavior in the Human Aorta, 1413

Nonlinear dynamics

Supernormal Excitability as a Mechanism of Chaotic Dynamics of Activation in Cardiac Purkinje Fibers, 525

Nonlinearity

In Vivo Viscoelastic Behavior in the Human Aorta, 1413

Norepinephrine

Effect of Acidosis on Contraction of Microvascular Smooth Muscle by α_1 - and α_2 -Adrenoceptors: Implications for Neural and Metabolic Regulation, 1643

Myocardial Effects of Selective α -Adrenoceptor Blockade During Exercise in Dogs, 1703

Sympathetic and Nonsympathetic Neuropeptide Y-Containing Nerves in the Rat Myocardium and Coronary Arteries, 1602

Norepinephrine kinetics

Direct Neurohumoral Evidence for Isolated Sympathetic Nervous System Activation to Skeletal Muscle in Response to Cardiopulmonary Baroreceptor Unloading, 1720

Norepinephrine release

Failure of the Cholinergic Modulation of Norepinephrine Release During Acute Myocardial Ischemia in the Rat, 950

Northern blotting

Molecular Cloning of Gene Sequences From Rat Heart Rapidly Responsive to Pressure Overload, 979

Nuclear magnetic resonance spectroscopy

Excitation-Contraction Coupling in Postschismic Myocardium: Does Failure of Activator Ca^{2+} Transients Underlie Stunning?, 1268

Quantification of $[Ca^{2+}]$ in Perfused Hearts: Critical Evaluation of the 5F-BAPTA and Nuclear Magnetic Resonance Method as Applied to the Study of Ischemia and Reperfusion, 1255

O

Ouabain

The Hyperthyroid Heart: An Analysis of Systolic and Diastolic Properties in Single Rat Ventricular Myocytes, 773

Oxygen

Role of the Vascular Endothelium in Regulating the Response of Small Arteries of the Dog Kidney to Transmural Pressure Elevation and Reduced PO_2 , 1427

Oxygen consumption

Metabolic Oxidation of Pyruvate and Lactate During Early Myocardial Reperfusion, 282

Oxygen-derived free radicals

Detection of Oxygen-Derived Free Radical Generation in the Canine Postischemic Heart During Late Phase of Reperfusion, 1160

Oxygen radicals

Limitation of Myocardial Infarct Size by Superoxide Dismutase as an Adjunct to Reperfusion After Different Durations of Coronary Occlusion in the Pig, 1294

P

^{31}P NMR

Effects of Amiloride on Metabolism and Contractility During Reoxygenation in Perfused Rat Hearts, 1012

Postischemic Recovery of Mechanical Performance and Energy Metabolism in the Presence of Left Ventricular Hypertrophy: A ^{31}P -MRS Study, 735

Pacemaker current

Acetylcholine Reverses Effects of β -Agonists on Pacemaker Current in Canine Cardiac Purkinje Fibers but Has No Direct Action: A Difference Between Primary and Secondary Pacemakers, 633

Paired ventricular myocytes

ATP Directly Affects Junctional Conductance Between Paired Ventricular Myocytes Isolated From Guinea Pig Heart, 1095

Passive electrical properties

Electrical Properties of Canine Subendocardial Purkinje Fibers Surviving in 1-Day-Old Experimental Myocardial Infarction, 123

Pericytes

Gap Junction Messenger RNA Expression by Vascular Wall Cells, 1074

Peripheral resistance

Relative Roles of Cardiac Receptors and Arterial Baroreceptors During Hemorrhage in Conscious Dogs, 397

Permeability

Functional Coronary Microvascular Injury Evident As Increased Permeability Due to Brief Ischemia and Reperfusion, 986

Persistent truncus arteriosus

Reduced L-Type Calcium Current in the Embryonic Chick Heart with Persistent Truncus Arteriosus, 1491

Pertussis toxin

5-Hydroxytryptamine Induces Phospholipase C-Mediated Hydrolysis of Phosphoinositides Through 5-Hydroxytryptamine-2 Receptors in Cultured Fetal Mouse Ventricular Myocytes, 1474

Phase angle

In Vitro Study of the Influence of Radial Wall Motion on Wall Shear Stress in an Elastic Tube Model of the Aorta, 1624

Phenylephrine

Effect of Acidosis on Contraction of Microvascular Smooth Muscle by α_1 - and α_2 -Adrenoceptors: Implications for Neural and Metabolic Regulation, 1643

Effects of α -Adrenergic Stimulation on Intracellular Sodium Activity and Automaticity in Canine Purkinje Fibers, 416

Phorbol ester

Phorbol Ester and Dioctanoylglycerol Stimulate Membrane Association of Protein Kinase C and Have a Negative Inotropic Effect Mediated by Changes in Cytosolic Ca^{2+} in Adult Rat Cardiac Myocytes, 1143

Phosphoinositide hydrolysis

5-Hydroxytryptamine Induces Phospholipase C-Mediated Hydrolysis of Phosphoinositides Through 5-Hydroxy-

tryptamine-2 Receptors in Cultured Fetal Mouse Ventricular Myocytes, 1474

Phospholipase C

5-Hydroxytryptamine Induces Phospholipase C-Mediated Hydrolysis of Phosphoinositides Through 5-Hydroxytryptamine-2 Receptors in Cultured Fetal Mouse Ventricular Myocytes, 1474

Phospholipid methylation

Stimulation of Phospholipid N-Methylation by Isoproterenol in Rat Hearts, 28

Phospholipids

Protective Role of Intracoronary Fatty Acid Binding Protein in Ischemic and Reperfused Myocardium, 1535

Pia mater

Flow-Induced Constriction and Dilatation of Cerebral Resistance Arteries, 1445

Pigs

Limitation of Myocardial Infarct Size by Superoxide Dismutase as an Adjunct to Reperfusion After Different Durations of Coronary Occlusion in the Pig, 1294

Pig heart

Central β -Adrenergic Mechanisms May Modulate Ischemic Ventricular Fibrillation in Pigs, 259

Myocardial Hibernation in the Ischemic Neonatal Heart, 763

Plasma renin concentration

Sexual Dimorphism in Vasopressin and Cardiovascular Response to Hemorrhage in the Rat, 1345

Plasminogen

Accelerated Thrombolysis and Reperfusion in a Canine Model of Myocardial Infarction by Liposomal Encapsulation of Streptokinase, 875

Platelet aggregability

Acceleration of Platelet Aggregability Due to Modulation of Native LDL, 1166

Platelets

Effect of Wall Shear Rate on Thrombogenesis in Microvessels of the Rat Mesentery, 941

Impaired Prostaglandin E_1/I_2 Receptor Activity of Human Blood Platelets in Acute Ischemic Heart Disease, 932

Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

Polymerase chain reaction

Regulation of Myosin Heavy Chain Expression in the Hearts of Hypertensive Rats by Testosterone, 1585

Polymorphonuclear leukocyte

Polymorphonuclear Leukocytes Induced Vasoconstriction in Isolated Canine Coronary Arteries, 253

Thromboxane A_2 and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Porcine coronary artery

Coronary Arteriolar Myogenic Response Is Independent of Endothelium, 860

Positive inotropic effect

Evidence for the Existence of Inositol Tetrakisphosphate in Mammalian Heart: Effect of α_1 -Adrenoceptor Stimulation, 580

Potassium

Reduction of Ischemic K^+ Loss and Arrhythmias in Rat Hearts: Effect of Glibenclamide, a Sulfonyleurea, 478

Two Stable Levels of Diastolic Potential at Physiological K^+ Concentrations in Human Ventricular Myocardial Cells, 191

Potassium permeability

Two Stable Levels of Diastolic Potential at Physiological K^+ Concentrations in Human Ventricular Myocardial Cells, 191

Potential gradient

Conduction Disturbances Caused by High Current Density Electric Fields, 1190

Prazosin

Effects of α -Adrenergic Stimulation on Intracellular Sodium Activity and Automaticity in Canine Purkinje Fibers, 416
Myocardial Effects of Selective α -Adrenoceptor Blockade During Exercise in Dogs, 1703

Preconditioning

Ischemic Preconditioning Reduces Infarct Size in Swine Myocardium, 1133

Pressoreceptors

Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804

Pressure

Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218

Pressure overload

Local Response to Cardiac Overload on Myosin Heavy Chain Gene Expression and Isozyme Transition, 1067

Pressure-overload hypertrophy

Exercise-Induced Subendocardial Dysfunction in Dogs With Left Ventricular Hypertrophy, 329

Pressure-rate index

Endothelium and Myocardial Protecting Actions of Taprostene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Pressure-volume relation

Decreased Contractile Efficiency and Increased Nonmechanical Energy Cost in Hyperthyroid Rabbit Heart: Relation Between O₂ Consumption and Systolic Pressure-Volume Area or Force-Time Integral, 999

Effect of Early Diastolic Loading on Myocardial Relaxation in the Intact Canine Left Ventricle, 1217

Presynaptic inhibition

Failure of the Cholinergic Modulation of Norepinephrine Release During Acute Myocardial Ischemia in the Rat, 950

Primary cell culture

Triggerlike Stimulation of Cholesterol Accumulation and DNA and Extracellular Matrix Synthesis Induced by Atherogenic Serum or Low Density Lipoprotein in Cultured Cells, 311

Propranolol

Central β -Adrenergic Mechanisms May Modulate Ischemic Ventricular Fibrillation in Pigs, 259

Comparative Antioxidant Activities of Propranolol, Nifedipine, Verapamil, and Diltiazem Against Sarcolemmal Membrane Lipid Peroxidation, 1449

Effects of α -Adrenergic Stimulation on Intracellular Sodium Activity and Automaticity in Canine Purkinje Fibers, 416

Prostacyclin

Calcium Entry Blockade Prevents Leakage of Macromolecules Induced by Ischemia-Reperfusion in Skeletal Muscle, 1636

Effects of Endothelin on Coronary Flow, Mechanical Performance, Oxygen Uptake, and Formation of Purines and on Outflow of Prostacyclin in the Isolated Rabbit Heart, 46

Endothelium and Myocardial Protecting Actions of Taprostene, a Stable Prostacyclin Analogue, After Acute Myocardial Ischemia and Reperfusion in Cats, 1362

Impaired Prostaglandin E₁/I₂ Receptor Activity of Human Blood Platelets in Acute Ischemic Heart Disease, 932

Prostaglandin E₁

Impaired Prostaglandin E₁/I₂ Receptor Activity of Human Blood Platelets in Acute Ischemic Heart Disease, 932

Prostaglandin E₁/I₂ receptors

Impaired Prostaglandin E₁/I₂ Receptor Activity of Human Blood Platelets in Acute Ischemic Heart Disease, 932

Prostaglandins

Does Endocardial Endothelium Mediate Positive Inotropic Response to Angiotensin I and Angiotensin II?, 1591

Prostaglandins in the Pericardial Fluid Modulate Neural Regulation of Cardiac Electrophysiological Properties, 163

Prostanoids

Dexamethasone Selectively Attenuates Prostanoid-Induced Vasoconstrictor Responses In Vitro, 383

Effect of Thromboxane A₂/Endoperoxide Antagonist SQ29548 on the Contractile Response to Acetylcholine in Newborn Piglet Cerebral Arteries, 824

Protein kinase C

5-Hydroxytryptamine Induces Phospholipase C-Mediated Hydrolysis of Phosphoinositides Through 5-Hydroxytryptamine-2 Receptors in Cultured Fetal Mouse Ventricular Myocytes, 1474

Phorbol Ester and Dioctanoylglycerol Stimulate Membrane Association of Protein Kinase C and Have a Negative Inotropic Effect Mediated by Changes in Cytosolic Ca²⁺ in Adult Rat Cardiac Myocytes, 1143

Protein synthesis

β -Adrenergic Agonists Stimulate the Synthesis of Noncontractile but Not Contractile Proteins in Cultured Myocytes Isolated From Adult Rat Heart, 867

Proximal tubule

Response of Superficial Proximal Convoluted Tubule to Decreased and Increased Renal Perfusion Pressure: In Vivo Microperfusion Study in Rats, 1184

Psychological stress

Central β -Adrenergic Mechanisms May Modulate Ischemic Ventricular Fibrillation in Pigs, 259

Pulmonary arteries

Collagen and Elastin Metabolism in Hypertensive Pulmonary Arteries of Rats, 968

Effects of Prolonged Hypoxia on Adenylate Cyclase Activity and β -Adrenergic Receptors in Pulmonary and Systemic Arteries of the Rat, 1526

Pulmonary circulation

Alterations in Elastin and Collagen Related to the Mechanism of Progressive Pulmonary Venous Obstruction in a Piglet Model: A Hemodynamic, Ultrastructural, and Biochemical Study, 438

Collagen and Elastin Metabolism in Hypertensive Pulmonary Arteries of Rats, 968

Pulmonary hypertension

Alterations in Elastin and Collagen Related to the Mechanism of Progressive Pulmonary Venous Obstruction in a Piglet Model: A Hemodynamic, Ultrastructural, and Biochemical Study, 438

Collagen and Elastin Metabolism in Hypertensive Pulmonary Arteries of Rats, 968

Pulmonary venous obstruction

Alterations in Elastin and Collagen Related to the Mechanism of Progressive Pulmonary Venous Obstruction in a Piglet Model: A Hemodynamic, Ultrastructural, and Biochemical Study, 438

Pulmonary venous vasoactivity

Pulmonary Venous Responses to Thromboxane A₂ Analogue and Atrial Natriuretic Peptide in Lambs, 496

Pumping properties

Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218

Purkinje fibers

Acetylcholine Reverses Effects of β -Agonists on Pacemaker Current in Canine Cardiac Purkinje Fibers but Has No Direct Action: A Difference Between Primary and Secondary Pacemakers, 633

Supernormal Excitability as a Mechanism of Chaotic Dynamics of Activation in Cardiac Purkinje Fibers, 525

Pyruvate oxidation

Metabolic Oxidation of Pyruvate and Lactate During Early Myocardial Reperfusion, 282

Q**QRS notching and slurring**

Spectral Analysis of Canine Epicardial Electrogram: Short-term Variations in the Frequency Content Induced by Myocardial Ischemia, 1681 Q

Quantitative fluorography

Molecular Cloning of Gene Sequences From Rat Heart Rapidly Responsive to Pressure Overload, 979

Quinidine

Effects of Quinidine on the Sodium Current of Guinea Pig Ventricular Myocytes: Evidence for a Drug-Associated Rested State with Altered Kinetics, 565

R**Rabbits**

Cellular Mechanism of the Functional Refractory Period in Ventricular Muscle, 147

- Vascular Reactivity During the Progression of Atherosclerotic Plaque: A Study in Watanabe Heritable Hyperlipidemic Rabbits, 1112
- Radiolabeled microsphere**
Heterogeneous Changes in Epimyocardial Microvascular Size During Graded Coronary Stenosis: Evidence of the Microvascular Site for Autoregulation, 389
- Rapid filtration techniques**
Canine Cardiac Sarcolemmal Vesicles Demonstrate Rapid Initial Na^+ - Ca^{2+} Exchange Activity, 1171
- Rapid kinetics**
Canine Cardiac Sarcolemmal Vesicles Demonstrate Rapid Initial Na^+ - Ca^{2+} Exchange Activity, 1171
- Rat heart**
Failure of the Cholinergic Modulation of Norepinephrine Release During Acute Myocardial Ischemia in the Rat, 950
Glucose Flux Rate Regulates Onset of Ischemic Contracture in Globally Underperfused Rat Hearts, 344
Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218
Nitrendipine Binding in Congestive Heart Failure Due to Myocardial Infarction, 782
Postischemic Recovery of Mechanical Performance and Energy Metabolism in the Presence of Left Ventricular Hypertrophy: A ^{31}P -MRS Study, 735
Stimulation of Phospholipid *N*-Methylation by Isoproterenol in Rat Hearts, 28
- Reactive hyperemia**
Skeletal Muscle Metaboreceptor Stimulation Opposes Peak Metabolic Vasodilation in Humans, 1576
- Receptor**
Functional Implications of Decreased Renal Cortical Atrial Natriuretic Peptide Binding in Experimental Diabetes, 1453
- Receptor regulation**
Selective β_1 -Adrenoceptor Blockade Enhances Positive Inotropic Responses to Endogenous Catecholamines Mediated Through β_2 -Adrenoceptors in Human Atrial Myocardium, 1610
- Reentry**
Mechanisms Underlying the Development of Ventricular Fibrillation During Early Myocardial Ischemia, 672
Unidirectional Block and Reentry of Cardiac Excitation: A Model Study, 367
- Reflexes**
Skeletal Muscle Metaboreceptor Stimulation Opposes Peak Metabolic Vasodilation in Humans, 1576
- Refractory period**
Electrophysiological Properties and Responses to Simulated Ischemia in Cat Ventricular Myocytes of Endocardial and Epicardial Origin, 469
- Regional blood flow**
Baroreflex Control of the Cutaneous Active Vasodilator System in Humans, 1420
- Regional myocardial blood flow**
Molecular and Particulate Depositions for Regional Myocardial Flows in Sheep, 1328
- Regression of cardiac hypertrophy**
Changes of Atrial Natriuretic Peptide and Its Messenger RNA With Development and Regression of Cardiac Hypertrophy in Renovascular Hypertensive Rats, 176
- Regulatory proteins**
Regulatory Proteins in Hamster Cardiomyopathy, 1302
- Relaxation**
Effect of Early Diastolic Loading on Myocardial Relaxation in the Intact Canine Left Ventricle, 1217
- Renal ANP receptor**
Functional Implications of Decreased Renal Cortical Atrial Natriuretic Peptide Binding in Experimental Diabetes, 1453
- Renal hemodynamics**
Bradykinin Contribution to Renal Blood Flow Effect of Angiotensin Converting Enzyme Inhibitor in the Conscious Sodium-Restricted Dog, 234
- Renal perfusion pressure**
Renal-Endocrine Adaptations to Endogenous Atrial Natriuretic Factor During Tachycardia-Induced Reductions in Renal Perfusion Pressure, 76
- Renin**
Endogenous Adenosine Restrains Renin Release in Conscious Rats, 637
- Renin-angiotensin system**
Endothelial Renin-Angiotensin Pathway: Adrenergic Regulation of Angiotensin Secretion, 103
- Renin-angiotensin-aldosterone system**
Renal-Endocrine Adaptations to Endogenous Atrial Natriuretic Factor During Tachycardia-Induced Reductions in Renal Perfusion Pressure, 76
- Renovascular hypertension**
Baroreceptor-Heart Rate Reflex Function Before and After Surgical Reversal of Two-Kidney, One-Clip Hypertension in the Rat, 1673
- Reoxygenation**
Effects of Amiloride on Metabolism and Contractility During Reoxygenation in Perfused Rat Hearts, 1012
- Reperfusion**
Accelerated Thrombolysis and Reperfusion in a Canine Model of Myocardial Infarction by Liposomal Encapsulation of Streptokinase, 875
Glucose and Palmitate Oxidation in Isolated Working Rat Hearts Reperfused After a Period of Transient Global Ischemia, 546
Intermittent Ischemia Produces a Cumulative Depletion of Mitochondrial Adenine Nucleotides in the Isolated Perfused Rat Heart, 302
Ischemic Preconditioning Slows Energy Metabolism and Delays Ultrastructural Damage During a Sustained Ischemic Episode, 913
Limitation of Myocardial Infarct Size by Superoxide Dismutase as an Adjunct to Reperfusion After Different Durations of Coronary Occlusion in the Pig, 1294
Myocardial Transport of Hexakis(2-methoxyisobutylisonitrile) and Thallium Before and After Coronary Reperfusion, 1738
Neutrophil-Mediated Microvascular Dysfunction in Postischemic Canine Skeletal Muscle: Role of Granulocyte Adherence, 1436
- Reperfusion arrhythmias**
Effects of Proton Buffering and of Amiloride Derivatives on Reperfusion Arrhythmias in Isolated Rat Hearts: Possible Evidence for an Arrhythmogenic Role of Na^+ - H^+ Exchange, 1156
- Reperfusion injury**
Detection of Oxygen-Derived Free Radical Generation in the Canine Postischemic Heart During Late Phase of Reperfusion, 1160
Ischemic Preconditioning Reduces Infarct Size in Swine Myocardium, 1133
Protective Role of Intracoronary Fatty Acid Binding Protein in Ischemic and Reperfused Myocardium, 1535
- Residual stress**
Residual Strain in Rat Left Ventricle, 37
- Resistance**
Late-Systolic Pumping Properties of the Left Ventricle: Deviation From Elastance-Resistance Behavior, 218
- Resistance artery**
Flow-Induced Constriction and Dilation of Cerebral Resistance Arteries, 1445

S

- Saphenous vein**
Interaction Between Endothelin-1 and Endothelium-Derived Relaxing Factor in Human Arteries and Veins, 1088
- Sarcolemmal Ca^{2+} channels**
Nitrendipine Binding in Congestive Heart Failure Due to Myocardial Infarction, 782

Sarcolemmal lipid peroxidation

Comparative Antioxidant Activities of Propranolol, Nifedipine, Verapamil, and Diltiazem Against Sarcolemmal Membrane Lipid Peroxidation, 1449

Sarcolemmal vesicles

Canine Cardiac Sarcolemmal Vesicles Demonstrate Rapid Initial Na^+ - Ca^{2+} Exchange Activity, 1171

Sarcomere length

Force and Velocity of Sarcomere Shortening in Trabeculae From Rat Heart: Effects of Temperature, 1239

Sarcoplasmic reticulum

Changes in Intracellular Calcium During Mechanical Alternans in Isolated Ferret Ventricular Muscle, 585

Function of the Sarcoplasmic Reticulum and Expression of Its Ca^{2+} -ATPase Gene in Pressure Overload-Induced Cardiac Hypertrophy in the Rat, 554

The Hyperthyroid Heart: An Analysis of Systolic and Diastolic Properties in Single Rat Ventricular Myocytes, 773

The Role of Mitochondria and Sarcoplasmic Reticulum Calcium Handling Upon Reoxygenation of Hypoxic Myocardium, 696

Selective current path

Importance of the Great Vessels in the Genesis of the Electrocardiogram, 1081

Semicarbazide-sensitive amine oxidase

A Role for a New Vascular Enzyme in the Metabolism of Xenobiotic Amines, 249

Serotonin

5-Hydroxytryptamine Induces Phospholipase C-Mediated Hydrolysis of Phosphoinositides Through 5-Hydroxytryptamine-2 Receptors in Cultured Fetal Mouse Ventricular Myocytes, 1474

Sestamibi

Myocardial Transport of Hexakis(2-methoxyisobutylisnitrile) and Thallium Before and After Coronary Reperfusion, 1738

Sheep

Impact of Carbon Monoxide on Cardiopulmonary Dysfunction After Smoke Inhalation Injury, 69

Molecular and Particulate Depositions for Regional Myocardial Flows in Sheep, 1328

Single cells

Three Different Potassium Channels in Human Atrium: Contribution to the Basal Potassium Conductance, 1277

Sinoatrial node

Chronotropic and Dromotropic Responses to Stimulation of Intracardiac Sympathetic Nerves to Sinoatrial or Atrioventricular Nodal Region in Anesthetized Dogs, 1391

Sinus cycle length

Prostaglandins in the Pericardial Fluid Modulate Neural Regulation of Cardiac Electrophysiological Properties, 163

Skeletal muscle

Calcium Entry Blockade Prevents Leakage of Macromolecules Induced by Ischemia-Reperfusion in Skeletal Muscle, 1636

Skin blood flow

Baroreflex Control of the Cutaneous Active Vasodilator System in Humans, 1420

Smooth muscle cells

Induction of Insulin-Like Growth Factor I Messenger RNA in Rat Aorta After Balloon Denudation, 1755

Smooth muscle mechanics

Muscle Length, Shortening, Myoplasmic $[\text{Ca}^{2+}]$, and Activation of Arterial Smooth Muscle, 1354

Sodium

Response of Superficial Proximal Convoluted Tubule to Decreased and Increased Renal Perfusion Pressure: In Vivo Microperfusion Study in Rats, 1184

Sodium current

Effects of Quinidine on the Sodium Current of Guinea Pig Ventricular Myocytes: Evidence for a Drug-Associated Rested State with Altered Kinetics, 565

Sodium excretion

Renal-Endocrine Adaptations to Endogenous Atrial Natriuretic Factor During Tachycardia-Induced Reductions in Renal Perfusion Pressure, 76

Sodium nitroprusside

Interaction Between Endothelin-1 and Endothelium-Derived Relaxing Factor in Human Arteries and Veins, 1088

Species difference

Atrial Natriuretic Factor-Induced Systemic Vasoconstriction in Conscious Dogs, Rats, and Monkeys, 647

Spin trapping

Detection of Oxygen-Derived Free Radical Generation in the Canine Postischemic Heart During Late Phase of Reperfusion, 1160

SQ29548

Role of Thromboxane A_2 in the Cardiovascular Response to Intracoronary C5a, 1103

ST elevation

Importance of the Great Vessels in the Genesis of the Electrocardiogram, 1081

Stenotic index

Hemodynamic Resistance as a Measure of Functional Impairment in Aortic Valvular Stenosis, 1

Stereology

Effects of Aging on Mechanics and Composition of Cerebral Arterioles in Rats, 1747

Streptokinase

Accelerated Thrombolysis and Reperfusion in a Canine Model of Myocardial Infarction by Liposomal Encapsulation of Streptokinase, 875

Stunned myocardium

Excitation-Contraction Coupling in Postischemic Myocardium: Does Failure of Activator Ca^{2+} Transients Underlie Stunning?, 1268

Exercise-Induced Subendocardial Dysfunction in Dogs With Left Ventricular Hypertrophy, 329

Quantification of $[\text{Ca}^{2+}]$ in Perfused Hearts: Critical Evaluation of the 5F-BAPTA and Nuclear Magnetic Resonance Method as Applied to the Study of Ischemia and Reperfusion, 1255

Stunning

Ischemic Preconditioning Reduces Infarct Size in Swine Myocardium, 1133

Subendocardial myocardium

Differences in Myosin Isoform Expression in the Subepicardial and Subendocardial Myocardium During Cardiac Hypertrophy in the Rat, 1127

Subendocardial Purkinje fibers

Electrical Properties of Canine Subendocardial Purkinje Fibers Surviving in 1-Day-Old Experimental Myocardial Infarction, 123

Subepicardial myocardium

Differences in Myosin Isoform Expression in the Subepicardial and Subendocardial Myocardium During Cardiac Hypertrophy in the Rat, 1127

Substance P

Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804

Substance P Is Released From the Endothelium of Normal and Capsaicin-Treated Rat Hind-Limb Vasculature, In Vivo, by Increased Flow, 1178

Supernormality

Supernormal Excitability as a Mechanism of Chaotic Dynamics of Activation in Cardiac Purkinje Fibers, 525

Superoxide dismutase

Actions of Adenosine on Nitro Blue Tetrazolium Deposition and Surface pH During Intestinal Reperfusion Injury, 1713

Limitation of Myocardial Infarct Size by Superoxide Dismutase as an Adjunct to Reperfusion After Different Durations of Coronary Occlusion in the Pig, 1294

Role of Oxygen-Derived Free Radicals in Acute Angiotensin II-Induced Hypertensive Vascular Disease in the Rat, 722

Sympathetic and parasympathetic interactions

Failure of the Cholinergic Modulation of Norepinephrine Release During Acute Myocardial Ischemia in the Rat, 950

Sympathetic nerves

Regulation of Large Cerebral Arteries and Cerebral Microvascular Pressure, 8

T

Tachycardia

- Atrial Pacing Stimulates Secretion of Atrial Natriuretic Peptide Without Elevation of Atrial Pressure in Awake Dogs With Experimental Complete Atrioventricular Block, 115
- Renal-Endocrine Adaptations to Endogenous Atrial Natriuretic Factor During Tachycardia-Induced Reductions in Renal Perfusion Pressure, 76

Temperature

- Force and Velocity of Sarcomere Shortening in Trabeculae From Rat Heart: Effects of Temperature, 1239

Testosterone

- Regulation of Myosin Heavy Chain Expression in the Hearts of Hypertensive Rats by Testosterone, 1585

Thallium-201

- Myocardial Transport of Hexakis(2-methoxyisobutylisonitrile) and Thallium Before and After Coronary Reperfusion, 1738

Theophylline

- Actions of Adenosine on Nitro Blue Tetrazolium Deposition and Surface pH During Intestinal Reperfusion Injury, 1713
- Increased Myocardial Adenosine Production and Reduction of β -Adrenergic Contractile Response in Aged Hearts, 1381

Thrombin

- Rapid and Reversible Inhibition by Low Density Lipoprotein of the Endothelium-Dependent Relaxation to Hemostatic Substances in Porcine Coronary Arteries: Heat and Acid Labile Factors in Low Density Lipoprotein Mediate the Inhibition, 18

Thrombogenesis

- Effect of Wall Shear Rate on Thrombogenesis in Microvessels of the Rat Mesentery, 941

Thrombolysis

- Accelerated Thrombolysis and Reperfusion in a Canine Model of Myocardial Infarction by Liposomal Encapsulation of Streptokinase, 875

Thromboxane A₂

- Calcium Entry Blockade Prevents Leakage of Macromolecules Induced by Ischemia-Reperfusion in Skeletal Muscle, 1636
- Effect of Thromboxane A₂/Endoperoxide Antagonist SQ29548 on the Contractile Response to Acetylcholine in Newborn Piglet Cerebral Arteries, 824
- Pulmonary Venous Responses to Thromboxane A₂ Analogue and Atrial Natriuretic Peptide in Lambs, 496

Thromboxane B₂

- Thromboxane B₂ in Cardiac Lymph: Effect of Superoxide Dismutase and Catalase During Myocardial Ischemia and Reperfusion, 1040

Thyroid hormone

- Local Response to Cardiac Overload on Myosin Heavy Chain Gene Expression and Isozyme Transition, 1067

Thyroxine

- Decreased Contractile Efficiency and Increased Nonmechanical Energy Cost in Hyperthyroid Rabbit Heart: Relation Between O₂ Consumption and Systolic Pressure-Volume Area or Force-Time Integral, 999

Total peripheral resistance

- Atrial Natriuretic Factor-Induced Systemic Vasoconstriction in Conscious Dogs, Rats, and Monkeys, 647

Transient K⁺ current

- Experimental and Modeling Study of the Excitability of Carotid Sinus Baroreceptors, 1510

Transplanted heart

- Immunohistochemical Demonstration of Human Cardiac Innervation Before and After Transplantation, 900

Troponin T

- Changes in Myofibrillar Activation and Troponin C Ca²⁺ Binding Associated With Troponin T Isoform Switching in Developing Rabbit Heart, 1204

Troponin-tropomyosin

- Regulatory Proteins in Hamster Cardiomyopathy, 1302

Two-kidney, one-clip hypertension

- Changes of Atrial Natriuretic Peptide and Its Messenger RNA With Development and Regression of Cardiac Hypertrophy in Renovascular Hypertensive Rats, 176

U

U46619

- Dexamethasone Selectively Attenuates Prostanoid-Induced Vasoconstrictor Responses In Vitro, 383
- Role of Endothelium-Derived Relaxing Factor and Prostaglandins in Responses of Coronary Arteries to Thromboxane In Vivo, 1729
- Thromboxane A₂ and Peptidoleukotrienes Contribute to the Myocardial Ischemia and Contractile Dysfunction in Response to Intracoronary Infusion of Complement C5a in Pigs, 596

Ultra-water-soluble LDL

- Acceleration of Platelet Aggregability Due to Modulation of Native LDL, 1166

Ultrasound

- In Vivo Viscoelastic Behavior in the Human Aorta, 1413

Unidirectional block

- Unidirectional Block and Reentry of Cardiac Excitation: A Model Study, 367

Uptake

- Effect of Transmural Pressure on Low Density Lipoprotein and Albumin Transport and Distribution Across the Intact Arterial Wall, 1692

Urine

- Response of Superficial Proximal Convoluted Tubule to Decreased and Increased Renal Perfusion Pressure: In Vivo Microperfusion Study in Rats, 1184

Use-dependent block and unblock

- Interactions of Flecainide With Guinea Pig Cardiac Sodium Channels: Importance of Activation Unblocking to the Voltage Dependence of Recovery, 789

V

Valve area

- Hemodynamic Resistance as a Measure of Functional Impairment in Aortic Valvular Stenosis, 1

Valvular resistance

- Hemodynamic Resistance as a Measure of Functional Impairment in Aortic Valvular Stenosis, 1

Vascular atrophy

- Effects of Aging on Mechanics and Composition of Cerebral Arterioles in Rats, 1747

Vascular endothelial cells

- Substance P Is Released From the Endothelium of Normal and Capsaicin-Treated Rat Hind-Limb Vasculature, In Vivo, by Increased Flow, 1178

Vascular mechanics

- Effects of Aging on Mechanics and Composition of Cerebral Arterioles in Rats, 1747

Vascular metabolism

- A Role for a New Vascular Enzyme in the Metabolism of Xenobiotic Amines, 249

Vascular permeability

- Role of Oxygen-Derived Free Radicals in Acute Angiotensin II-Induced Hypertensive Vascular Disease in the Rat, 722

Vascular reactivity

- Vascular Reactivity During the Progression of Atherosclerotic Plaque: A Study in Watanabe Heritable Hyperlipidemic Rabbits, 1112

Vascular responses

- Dexamethasone Selectively Attenuates Prostanoid-Induced Vasoconstrictor Responses In Vitro, 383

Vascular smooth muscle

- Antagonistic Modulatory Roles of Magnesium and Calcium on Release of Endothelium-Derived Relaxing Factor and Smooth Muscle Tone, 355
- Coronary Arteriolar Myogenic Response Is Independent of Endothelium, 860
- Effect of Acidosis on Contraction of Microvascular Smooth Muscle by α_1 - and α_2 -Adrenoceptors: Implications for Neural and Metabolic Regulation, 1643
- Gap Junction Messenger RNA Expression by Vascular Wall Cells, 1074

- Isoform Distribution and Tissue Contents of Contractile and Cytoskeletal Proteins in Hypertrophied Smooth Muscle From Rat Portal Vein, 832
- Oxidized Low Density Lipoproteins Potentiate Vasoconstrictions to Various Agonists by Direct Interaction With Vascular Smooth Muscle, 1287
- Role of the Vascular Endothelium in Regulating the Response of Small Arteries of the Dog Kidney to Transmural Pressure Elevation and Reduced PO_2 , 1427
- Vasoconstriction**
Atrial Natriuretic Factor-Induced Systemic Vasoconstriction in Conscious Dogs, Rats, and Monkeys, 647
- Vasodilation**
Baroreflex Control of the Cutaneous Active Vasodilator System in Humans, 1420
Vasodilatory Action of Endogenous Atrial Natriuretic Factor in a Rat Model of Chronic Heart Failure as Determined by Monoclonal ANF Antibody, 1371
- Vasopressin**
Attenuation of Vasopressin-Mediated Coronary Constriction and Myocardial Depression in the Hypoxic Heart, 710
Peptidergic Modulation of Mechanotransduction in Rat Arterial Baroreceptors, 804
Sexual Dimorphism in Vasopressin and Cardiovascular Response to Hemorrhage in the Rat, 1345
- Ventricular automaticity**
Sympathetic Neural Modulation of Cardiac Impulse Initiation and Repolarization in the Newborn Rat, 427
- Ventricular fibrillation**
Central β -Adrenergic Mechanisms May Modulate Ischemic Ventricular Fibrillation in Pigs, 259
Comparison of Activation During Ventricular Fibrillation and Following Unsuccessful Defibrillation Shocks in Open-Chest Dogs, 1544
Mechanisms Underlying the Development of Ventricular Fibrillation During Early Myocardial Ischemia, 672
- Ventricular filling**
Effect of Early Diastolic Loading on Myocardial Relaxation in the Intact Canine Left Ventricle, 1217
- Ventricular function**
Correlation of Ventricular Area, Perimeter, and Conotruncal Diameter With Ventricular Mass and Function in the Chick Embryo From Stages 12 to 24, 109
- Ventricular muscle**
Cellular Mechanism of the Functional Refractory Period in Ventricular Muscle, 147
- Ventricular pacing**
Renal-Endocrine Adaptations to Endogenous Atrial Natriuretic Factor During Tachycardia-Induced Reductions in Renal Perfusion Pressure, 76
- Ventricular refractoriness**
Prostaglandins in the Pericardial Fluid Modulate Neural Regulation of Cardiac Electrophysiological Properties, 163

- Ventricular tachycardia**
Spatial Domain Analysis of Late Ventricular Potentials: Intracardiac and Thoracic Correlations, 55
Ventricular Arrhythmias in the Subacute Myocardial Infarction Period: High-Resolution Activation and Refractory Patterns of Reentrant Rhythms, 1310
- Verapamil**
Calcium Entry Blockade Prevents Leakage of Macromolecules Induced by Ischemia-Reperfusion in Skeletal Muscle, 1636
Passive Electrical Properties, Mechanical Activity, and Extracellular Potassium in Arterially Perfused and Ischemic Rabbit Ventricular Muscle: Effects of Calcium Entry Blockade or Hypocalcemia, 1461
- Vimentin**
Isoform Distribution and Tissue Contents of Contractile and Cytoskeletal Proteins in Hypertrophied Smooth Muscle From Rat Portal Vein, 832
- Viscoelasticity**
In Vivo Viscoelastic Behavior in the Human Aorta, 1413
- Viscosity**
In Vivo Viscoelastic Behavior in the Human Aorta, 1413
- Vitamin E**
Actions of Adenosine on Nitro Blue Tetrazolium Deposition and Surface pH During Intestinal Reperfusion Injury, 1713
- Vulnerability**
Comparison of Activation During Ventricular Fibrillation and Following Unsuccessful Defibrillation Shocks in Open-Chest Dogs, 1544

W

- Wall shear rate**
Effect of Wall Shear Rate on Thrombogenesis in Microvessels of the Rat Mesentery, 941
- Wall shear stress**
Flow Patterns and Spatial Distribution of Atherosclerotic Lesions in Human Coronary Arteries, 1045
In Vitro Study of the Influence of Radial Wall Motion on Wall Shear Stress in an Elastic Tube Model of the Aorta, 1624
- Wall stress**
Left Ventricular Failure Induced by Long-term Hypertension in Rats, 1400
- Wall thickness**
Exercise-Induced Subendocardial Dysfunction in Dogs With Left Ventricular Hypertrophy, 329

X

- Xanthine oxidase**
Actions of Adenosine on Nitro Blue Tetrazolium Deposition and Surface pH During Intestinal Reperfusion Injury, 1713

Z

- Zero-stress state**
Residual Strain in Rat Left Ventricle, 37

